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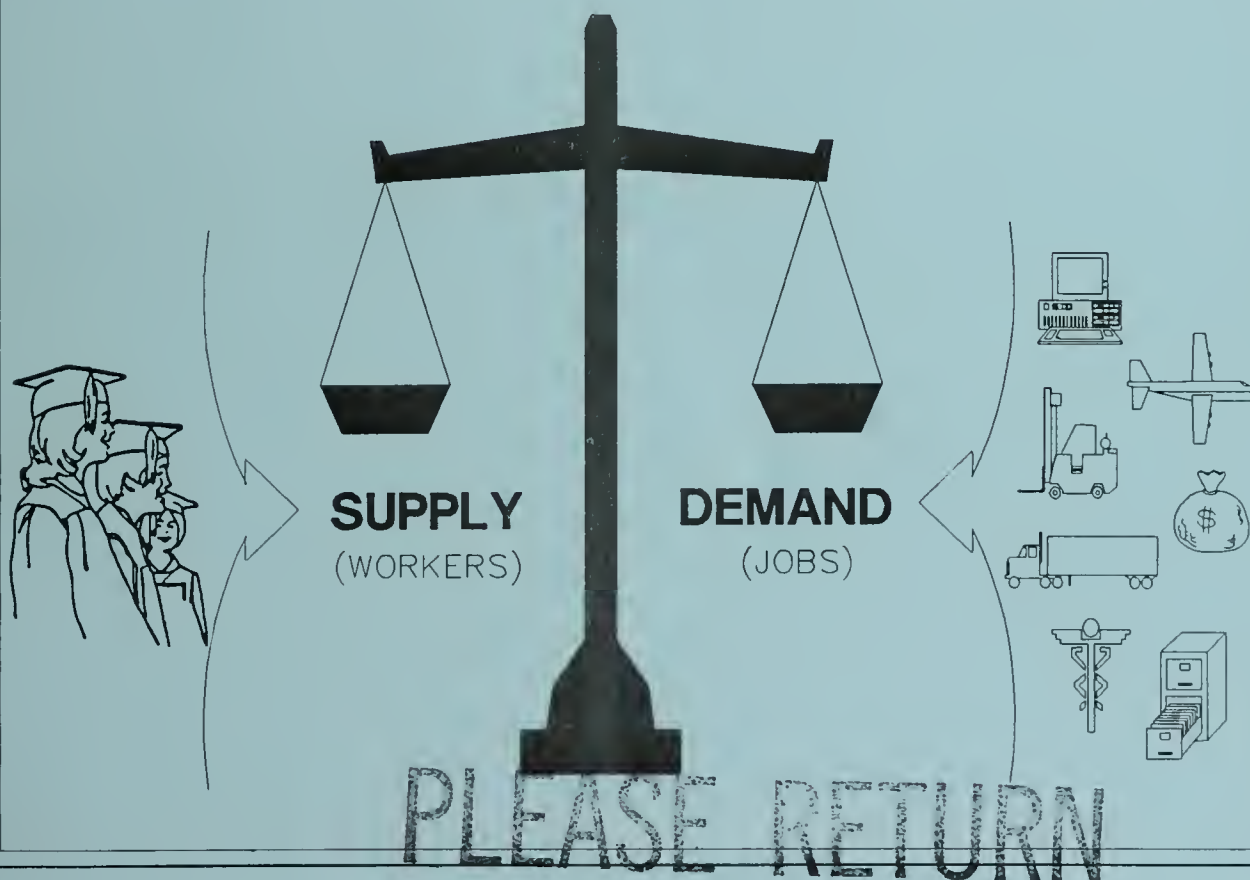
# MONTANA SUPPLY/DEMAND REPORT

Seventh Edition  
September, 1990

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Montana State  
Occupational  
Information  
Coordinating  
Committee



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# **MONTANA SUPPLY/DEMAND REPORT**

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**September, 1990**

**State of Montana  
Stan Stephens, Governor**

**Department of Labor & Industry  
Mike Micone, Commissioner**

**Produced by:**

**The Montana State Occupational  
Information Coordinating  
Committee (SOICC)  
P.O. Box 1728  
Helena, MT 59624  
Phone: (406) 444-2741**

**For more information, contact:**

**Bob Rafferty, Chief  
Research & Analysis Bureau  
Dept. of Labor & Industry  
P.O. Box 1728  
Helena, MT 59624  
Phone: (406) 444-2430**



## **SOICC Committee Members**

---

Joe Matthews, Administrator  
Rehabilitative/Visual Services  
Division

Department of Social and  
Rehabilitation Services

Brady Vardemann

Deputy Commissioner for Vocational  
Technical Education

Office of the Commissioner of  
Higher Education

Jim Whealon, Director of  
Vocational Education K-12  
Department of Curriculum Services  
Office of Public Instruction

Jan Clack, Administrator  
Office of Research and  
Information Services  
Department of Commerce

Robert V. Andersen, Administrator  
Research, Safety and Training Division  
Department of Labor and Industry

T. Gary Curtis, Administrator  
Job Service Division  
Department of Labor and Industry

Colleen Allison  
State Job Training  
Coordinating Council

## **SOICC Staff**

Robert N. Arnold  
Program Officer

Kate Kahle  
Data Base Technician

**September, 1990**

## Acknowledgements

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The information contained within this publication would not have been possible without the joint effort and cooperation of the Montana SOICC's Technical Steering Committee (TSC). The TSC consists of representatives from the SOICC's six member agencies. They are recognized for their continued guidance and support. Current TSC members include:

- Phil Brooks, Office of the Commissioner of Higher Education, University System
- Bob Jahner, Rehabilitative Services Division, Department of Social and Rehabilitation Services
- Leonard Lombardi, Department of Curriculum Services, Office of Public Instruction
- Bob Rafferty, Research, Safety and Training Division, Department of Labor and Industry
- Patricia Roberts, Office of Research and Information Services, Department of Commerce
- Lorelee Robinson, Job Service Division, Department of Labor and Industry
- Anne Wolfinger, Montana Career Information System

Special thanks are extended to the staff of the Montana Career Information System; the Office of the Commissioner of Higher Education; the Office of Research and Information Services, Department of Commerce; the Research, Safety and Training and Job Service divisions, Department of Labor and Industry; Department of Curriculum Services, Office of Public Instruction; and the Rehabilitative/Visual Services Division, Department of Social and Rehabilitation Services. All offered valuable insight into the needs of the audiences and users they serve.

The efforts of Kate Kahle, SOICC Data Base Technician, have made a considerable contribution to this publication. Kate prepared reports using the Micro-Occupational Information System. She wrote much of the information contained within the 1990 edition of the "Montana Supply/Demand Report."

## Points to Remember About the Montana SOICC

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- The Montana SOICC is a committee.
- The SOICC and its work are really an extension of each of its member agencies and their individual agency work.
- All of the SOICC's work is accomplished through interagency cooperation.
- The SOICC compiles data from many agencies, then processes and analyzes the data in a technically appropriate manner to produce information usable by program planners, administrators, and people making career decisions.
- The SOICC's work minimizes duplication between agencies and improves the availability of *useful* information (particularly important in times of reduced budgets).
- The SOICC provides a formal structure that links the work done by education and labor agencies in Montana.
- The SOICC is responsible for designing, implementing, and maintaining a statewide, comprehensive Occupational Information System (OIS) based on current supply (workers) and demand (jobs).

For further information, write or call:

The Montana State Occupational Information  
Coordinating Committee (SOICC)  
P.O. Box 1728  
Helena, Montana 59624  
Phone: (406) 444-2741



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## **Introduction**

A continuing challenge faces education and training institutions. The challenge is to identify, design, and offer training programs that serve both the needs of individual participants and the needs of the economy and society. It is crucial that training programs designed to prepare individuals for specific occupations be realistic considering expected job openings (demand) and the expected number of persons available for, and prepared to fill them (supply).

Several factors must be considered in the design of training strategies. Occupational information can serve as a valuable asset to the planner. Recent legislation—in particular, the Carl Perkins Vocational Education Act of 1984 and the Job Training Partnership Act (JTPA) of 1982—have stressed the value of providing and using occupational information. By mandating the development of national, state, and local occupational information systems (OIS), the common occupational needs of vocational education and employment and training programs are met. Special attention is paid to the labor market information needs of youth and adults.

An OIS adds an important dimension to planning processes because it provides comprehensive data on current and expected labor market conditions. Access to this information has several potential benefits for education and training institutions. For example, it may enable these institutions to play a greater role in economic development efforts, or to respond to employers' needs in a more systematic and timely fashion. The OIS offers planners a broad perspective of employment needs and an efficient means of learning about local labor market conditions.

An OIS, however, cannot provide a planner with a definite quantitative indicator of what to do about a program (For example: "30 additional people need to be

trained in program X." ). Analysis and interpretation of possible causes for labor imbalances is not an exact science. Judgment, reason, and the experience of the planner, program advisory groups, and others all need to be considered in analyzing occupational information as a factor in program planning decisions.

An OIS can help planners make better informed decisions. It saves time and increases efficiency by flagging potential problems and documenting areas that are performing well. This allows planners to focus their attention and limited resources on areas that require action.

An OIS can also provide planners with documentation to justify program decisions and aid in getting approval of plans and funding. Showing the potential impact of a program on the economy of the community and the state could prove to be a critical point in getting funding. Use of a comprehensive integrated OIS can help planners justify decisions on the basis of economic impact and answer questions raised in the plan approval process.

The data can also help identify potential trouble spots in the performance of programs and related labor market conditions that may be causing them. OIS information can help educational planners develop programs that address the real and emerging needs of the economy.

Local governments can use information about employment, the supply of skilled workers, and available training programs to attract new businesses and industry. The system can provide information on occupational and employment trends to entrepreneurs who want to start small businesses.

Planning decisions can have broad policy implications and do involve consideration of many factors other than labor market conditions. Among them are:

- Financial resources

- Availability of qualified teachers
- Presence of tenured faculty
- Space
- Facilities
- Equipment
- Materials and curricula
- Student interest

Final recommendations about planning decisions frequently involve compromises or trade-offs of some kind between competing goals. These decisions can only be made by persons involved with and responsible for overseeing programs. What an OIS *can* provide is a common data base for coordinated planning within a state. It also provides a way for planners to identify and analyze areas that need attention.

The primary purpose for setting up SOICCs was, and continues to be, the development and maintenance of a comprehensive occupational information system based on supply (workers) and demand (jobs). These data, with data from the Montana Career Information System (MCIS), are used to support the career planning, guidance, and job search needs of various interest groups.

## **Organization of Reports**

The reports in this publication include demand, supply, and analysis data.

The reports are organized by *clusters*. A *cluster* is the grouping of education/training programs that have common curricula with common occupations that are typically entered as a result of the training. Occupational demand, supply, and analysis characteristics are related to each other by clusters. Montana's OIS contains 75 clusters.

The reports are organized alphabetically by major cluster (e.g., Agriculture Cluster, Communications Cluster), then by sub-cluster (e.g., AG01 Agriculture Production,

AG02 Agriculture Business). There is a demand, supply, and analysis report for most clusters. (Some clusters, such as "LA01 Liberal Arts and Foreign Languages," may not have Montana data for all reports.)

All reports are identified at the top by what data they represent (e.g., "Demand Report," "Supply Report," or "Analysis Information"). The reports also show the cluster title and number.

*Title* and *Code* reflect the title of the occupation or training program.

*Demand:* Demand information is reported in Occupational Employment Statistics (OES) code. The OES is a five-digit code.

*Supply:* Supply information is reported in Classification of Instructional Programs (CIP) code. The CIP is a six-digit code.

*Analysis:* Analysis information is reported in Dictionary of Occupational Titles (DOT) code. The DOT is a nine-digit code.

A description of data elements for each type of report follows.

## **Demand Information**

*Demand* is defined in this report as estimated jobs based on current industry surveys. The demand portion of this report consists of elements defined below.

*OES Matrix Code* (Occupational Employment Statistics) refers to a five-digit OES code that is *usually* – but not always – compatible with other occupational classification structures.

## **Demand Data Elements**

*1986 Employ* (1986 Employment) refers to the number of people who were employed in Montana by occupation at the completion of the OES survey.

*1995 Employ* (1995 Employment) refers to an estimate of the number of people ex-



pected to be employed in the corresponding occupation in 1995. These data incorporate two factors: 1) openings due to growth or decline in the level of occupational demand, and 2) replacement demand resulting from labor force separations. Growth and decline in occupational demand occur because of changes in business/economic conditions and technological advancements. Projections are prepared using procedures set up by the U.S. Department of Labor's Bureau of Labor Statistics. Projections are later used to convert industry employment (captured via survey) to occupational employment in each industry. Results are totalled across industries to get projected employment by occupation.

*Estimated Annual Growth* refers to the average annual growth due to business/economic fluctuations and technological advancements.

*Estimated Annual Replac* (Replacements) refers to average annual job openings that occur as individuals leave their respective occupation because of retirement or death. Job openings which occur due to occupational transfers and migration are not available.

*Estimated Annual Open* (Openings) includes two parts: 1) job openings resulting from industry growth, and 2) job openings resulting from separation (deaths and retirements). Together, these parts make up total average annual openings by occupation.

*Totals* contains the cluster total of the demand report. A comparison of the cluster total of average annual openings and the supply cluster totals gives planners information on growing and declining groups of occupations. They can determine whether or not training programs should be increased, decreased, or changed using new curricula.

## Limitations in OES Data

Occupational employment projections produced by the OES program are not precise measurements, but are "best estimates" based on a sample of Montana employers and historical industry employment trends. OES demand data offers users a standard and useful tool for making planning decisions. There is no source of available data that will give users an exact and current picture of occupational demand in their area. Users of demand data should be aware of the following:

- The data cover non-agricultural wage and salaried workers only (not agriculture or self-employed workers).
- Staffing patterns are based on statewide data and do not reflect possible variations from area to area of the state;
- Data are estimated, based on past trends, and therefore cannot predict unusual current or future economic conditions, or capture new occupations;
- Data should be used as estimates, not as exact figures for the state; and
- Average annual openings reflect growth and replacement. They do not reflect current openings due to turnover and mobility.

## Further OES Information

Montana's 1995 industry/occupation projections provide reliable estimates of occupational demand. Projections were produced using a matrix based on the OES survey. This matrix deals with employers rather than households.

There are three major parts to the Occupational Employment Statistics program:

1) Survey of non-farm wage and salary employment. The OES survey involves a periodic mailing of survey forms to non-agricultural employers. This is done in a three-year cycle. Different major industries are surveyed each year so the entire sample is completed every three years.

2) Industry/Occupation matrix of staffing patterns. The matrix is a model representing the occupational staffing patterns of each industry. The staffing patterns are based on the result of the OES survey. An important function of the matrix is that it shows where people work (industries) and what they do (occupations).

3) Projections. The third part of the program is the projections, the primary goal of the OES program. There are three elements of the projections: industry projections, occupation projections, and job openings. Annual openings are openings due to growth and separations from the labor force.

The projections show what is likely to happen barring major changes from past trends. The major economic assumptions used by the U.S. Bureau of Labor Statistics are used in these projections. The assumptions are:

- The institutional framework of our economy will not change radically;
- There will be no major events such as a widespread, long-lasting energy shortage or a war which would significantly alter the industrial structure of our economy or the rate of economic growth; and
- Current technological, scientific, and social trends (such as values placed on work, education, income, and leisure) will continue.

The projection information can help us look into the future with some confidence. We must match individuals and jobs to decrease unemployment and increase job satisfaction — which could also benefit the business

community and taxpayers. By using the information provided, people will have a more realistic knowledge of Montana's employment trends and be able to make better decisions for the future.

## **Supply Information**

*Supply* is defined as workers. *Current Supply* is the number of individuals employed in a particular occupation, plus the number of individuals qualified and seeking employment in Montana in that occupation. Montana's Occupational Information System (OIS) focuses on those people trained and available for employment in specific occupations in Montana at given points in time. An explanation of all elements contained within that report follows.

*Completers* is defined as the number of people completing training programs in Montana. Each training agency reports completers using the six-digit Classification of Instructional Programs (CIP) code. Data in this report are for the school year 1988-1989.

The numbers to the right of the CIP codes reflect the number of completers (supply of workers) trained by the various training agencies.

A common limitation in reporting completers is duplication between reporting agencies. Studies have determined that the duplication rate for completers is not more than 10% between and among state agency reporting systems.

## **Supply Data Elements**

*Public Second* (Secondary) refers to the number of high school students who have completed four semesters of a vocational education training program and are available for work in the state.

Limitations: Class-based reporting systems may result in duplicate program enrollment or completion counts.



Voc Tech (Vocational Technical) represents completers from the five state Vocational Technical Centers.

Limitations: Class-based reporting often results in duplicate program enrollment or completion counts. Many postsecondary enrollees and completers are employed while learning.

Higher Educ (Higher Education) lists all certificates and degrees awarded from all units of the Montana University System, including universities, tribal, community, and private colleges.

Limitations: Class-based reporting often results in duplicate program enrollment or completion counts. Many postsecondary enrollees and completers are employed while learning. Non-accredited colleges and universities are excluded from reporting systems. Supply information here reflects only the actual number of degrees and certificates awarded.

JTPA (Job Training Partnership Act) refers to information compiled using the JTPA client file. We used data for eligible clients who received and completed training in either classroom or on-the-job training (OJT) during a one-year period. The data was collected from July 1, 1988 through June 30, 1989. The data was reported in DOT code and crosswalked to CIP code.

Limitations: The U.S. Department of Labor does not require detail on training programs and clients. Some clients are “recycled” through several training programs and could be counted several times. Data are not available by Social Security number — only via DOT code. Often, JTPA classroom training occurs through the vocational education system. A JTPA trainee could potentially be counted in vocational education reporting, thus duplicating the counts of the available labor supply for a given occupation.

Job Corps reflects completers from the three Montana Job Corps Training Centers

statewide. This information shows the number of persons (by training program) that returned to the state after completing a Job Corps training program, or left with marketable skills. Data was collected for the period July 1, 1988 to June 30, 1989.

Limitations: Job Corps centers are not required by any state or federal agency to report completer data. Tabulation of this information was done by the National Occupational Information Coordinating Committee (NOICC).

Priv School (Private School) includes completers from private training schools statewide, such as cosmetology schools, real estate schools, tax preparation schools, etc.

Limitations: JTPA clients and Vocational Rehabilitation clients enrolled in postsecondary career school programs are counted in their respective management information systems as well as by the SOICC’s survey of these schools. Unfortunately, those individuals are counted twice in the report’s supply data.

Voc Rehab (Vocational Rehabilitation) refers to completers trained with funds provided by Vocational Rehabilitation in Montana. Data is reported by DOT code and crosswalked to CIP code.

Limitations: Clients of Vocational Rehabilitation may receive services over an extended time, and their entry into the labor market is not always known. Some clients may not get specific occupational skills. Some may get training on generic skills that help to overcoming handicaps. Job restructuring and job tailoring are key ingredients in vocational rehabilitation. After Voc Rehab training, some clients receive more training from other agencies, so the potential for duplication exists here.

Other supply sources not contained in this report, but which should be considered when making program training decisions, include:

- Occupational transfers (those who transfer from one occupation to another);
- The number of people who migrate in/out of Montana;
- Job Service applicants. Applicants provide a partial measure of the number of individuals seeking work through various employment agencies. Because the applicants are registered with Job Service, this measure of occupational supply covers only public sector agency registrants. This category is defined in the Analysis Information section of this publication; and
- Re-entrants to the labor force due to change in economic conditions (displaced workers).

## **Analysis Information**

The OIS contains analysis information made up of data that include more definitive sources of occupational information. Analysis information is shown for each cluster by the nine-digit Dictionary of Occupational Titles (DOT) code. Data in this report are from July 1, 1988 through June 30, 1989.

## **Analysis Data Elements**

Appren (Apprenticeship) information comes from the Apprenticeship and Training Bureau, Employment Policy Division, Montana Department of Labor and Industry, and the U.S. Department of Labor, Bureau of Apprenticeship and Training. This information contains the number of people in Montana who completed apprenticeship training programs during a one-year period.

The information presented on apprenticeship completers adds to the supply in certain occupations. This is particularly

true in the construction industry where completers become a part of the labor pool for many different employers.

J.S. App (Job Service Applicants) and J.S. Open (Job Service Openings) information contains data from the Job Service offices in Montana taken from the Employment Security Automated Reporting System (ESARS) reports. About 95% of all unemployment insurance claimants are registered applicants through the Job Service.

Caution should be used when using this data. ESARS data is reported from Table B96. The specific DOT codes summarized on Table B96 are selected on the basis of importance to employment testing, labor certification, occupational analysis, and labor market information. The decision to display these DOT codes is based on two criteria:

- 1) Importance to the national labor market in the current program year shown by receipt of over 1,000 job openings in that particular DOT, and
- 2) Importance to program operations in the areas of employment testing, labor certification, occupational analysis, or labor market information during the current program year.

Avg Hrwage (Average Hourly Wage) information comes from the "Fringe Benefit and Wage Information" publication from the Research and Analysis Bureau, Department of Labor and Industry. Data was collected through a survey of employers doing business in private non-agricultural industries within Montana.

The analysis information should be used with the supply of program completers and the estimated annual average job openings, along with any other information available for planning training programs.

NOTE: Military Returnees information was not available this year.

## **Summary**

In summary, statewide supply/demand data are extremely useful as a planning and counseling tool. These data do have limitations. Each counselor's and planner's professional judgment, combined with all available local data, is paramount in the planning process.

If you have problems using this report or have suggestions to improve it, call the Montana SOICC at (406) 444-2741 for further information and explanation.



# Montana Occupational and Education/Training Program Clusters List

## Agriculture & Forestry Cluster

|      |                              |
|------|------------------------------|
| AG01 | Agriculture Production       |
| AG02 | Agriculture Business         |
| AG03 | Agriculture Mechanics        |
| AG04 | Horticulture & Landscaping   |
| AG05 | Forestry & Lumber Production |
| AG06 | Fish & Wildlife              |
| AG07 | Animal Care                  |

## Communications Cluster

|      |                              |
|------|------------------------------|
| CM01 | Mass Communications          |
| CM02 | Advertising & Writing        |
| CM03 | Commercial Art & Graphic Art |
| CM04 | Printing & Photography       |

## Finance, Insurance & Real Estate Cluster

|      |             |
|------|-------------|
| FR01 | Finance     |
| FR02 | Insurance   |
| FR03 | Real Estate |

## Health Cluster

|      |                            |
|------|----------------------------|
| HE01 | Dental Technology          |
| HE02 | Medical Laboratory         |
| HE03 | Licensed Practical Nursing |
| HE04 | Surgical Technology        |
| HE05 | Nursing Assistance         |
| HE06 | Radiologic Technology      |
| HE07 | Rehabilitation             |
| HE08 | Other Medical Technology   |
| HE09 | Registered Nursing         |
| HE10 | Physician                  |

## Liberal Arts & Languages Cluster

|      |                                  |
|------|----------------------------------|
| LA01 | Liberal Arts & Foreign Languages |
| LA02 | History & Philosophy             |
| LA03 | Library Arts                     |
| LA04 | Fine Arts                        |
| LA05 | Social Sciences                  |

## Marketing Cluster

|      |                      |
|------|----------------------|
| MK01 | Marketing Management |
| MK02 | Sales                |
| MK03 | Manufacturing        |
| MK04 | Recreation & Tourism |

## Office Management Cluster

|      |                          |
|------|--------------------------|
| OF01 | Bookkeeping & Accounting |
| OF02 | Clerical Office Practice |

|      |                                   |
|------|-----------------------------------|
| OF03 | Office & Information Services     |
| OF04 | Personnel, Labor Relations, & Law |
| OF05 | Secretarial Office Practice       |
| OF06 | Administration/Office Management  |
| OF07 | Data Entry & Computer Operation   |
| OF08 | Computer Science & Programming    |

## Protective Service Cluster

|      |                              |
|------|------------------------------|
| PS01 | Emergency Medical Technology |
| PS02 | Fire & Fire Safety           |
| PS03 | Police Science & Criminology |

## Skills Cluster

|      |                                    |
|------|------------------------------------|
| SK01 | Electrical & Electronic Technology |
| SK02 | Appliance Repair                   |
| SK03 | Welding                            |
| SK04 | Carpentry & Construction Trades    |
| SK05 | Heavy Equipment Repair             |
| SK06 | Transportation & Engine Repair     |
| SK07 | Machine Shop                       |
| SK08 | Metalworking                       |
| SK09 | Utilities                          |
| SK10 | Textiles                           |

## Service Cluster

|      |                                 |
|------|---------------------------------|
| SV01 | Custodial & Maintenance Service |
| SV02 | Vehicle Operators               |
| SV03 | Barbering & Cosmetology         |
| SV04 | Child Care Services             |
| SV05 | Teaching, All Levels            |
| SV06 | Food Production                 |
| SV07 | Food Service                    |
| SV08 | Mortuary Service                |
| SV09 | Theological Service             |
| SV10 | Social Work                     |

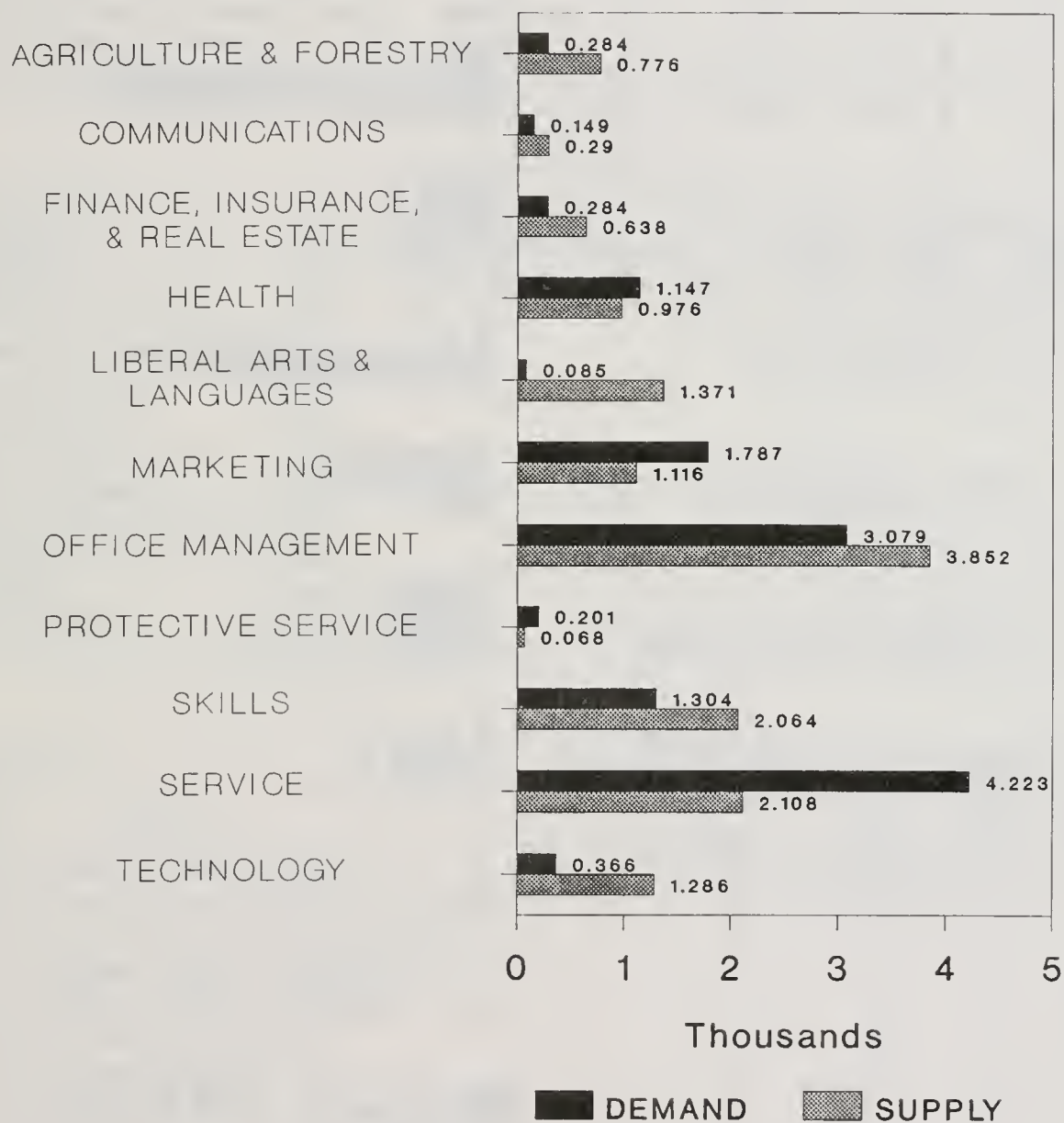
## Technology Cluster

|      |                                  |
|------|----------------------------------|
| TC01 | Power Station Operator           |
| TC02 | Architectural & Civil Technology |
| TC03 | Chemical Technology              |
| TC04 | Environmental Control Technology |
| TC05 | Mechanical Technology            |
| TC06 | Precision Instrument Technology  |
| TC07 | Math & Physical Sciences         |
| TC08 | Aviation                         |
| TC09 | Industrial Engineering           |
| TC10 | Natural Resources Technology     |
| TC11 | Engineering                      |

# MONTANA CLUSTERS

## DEMAND VS. SUPPLY

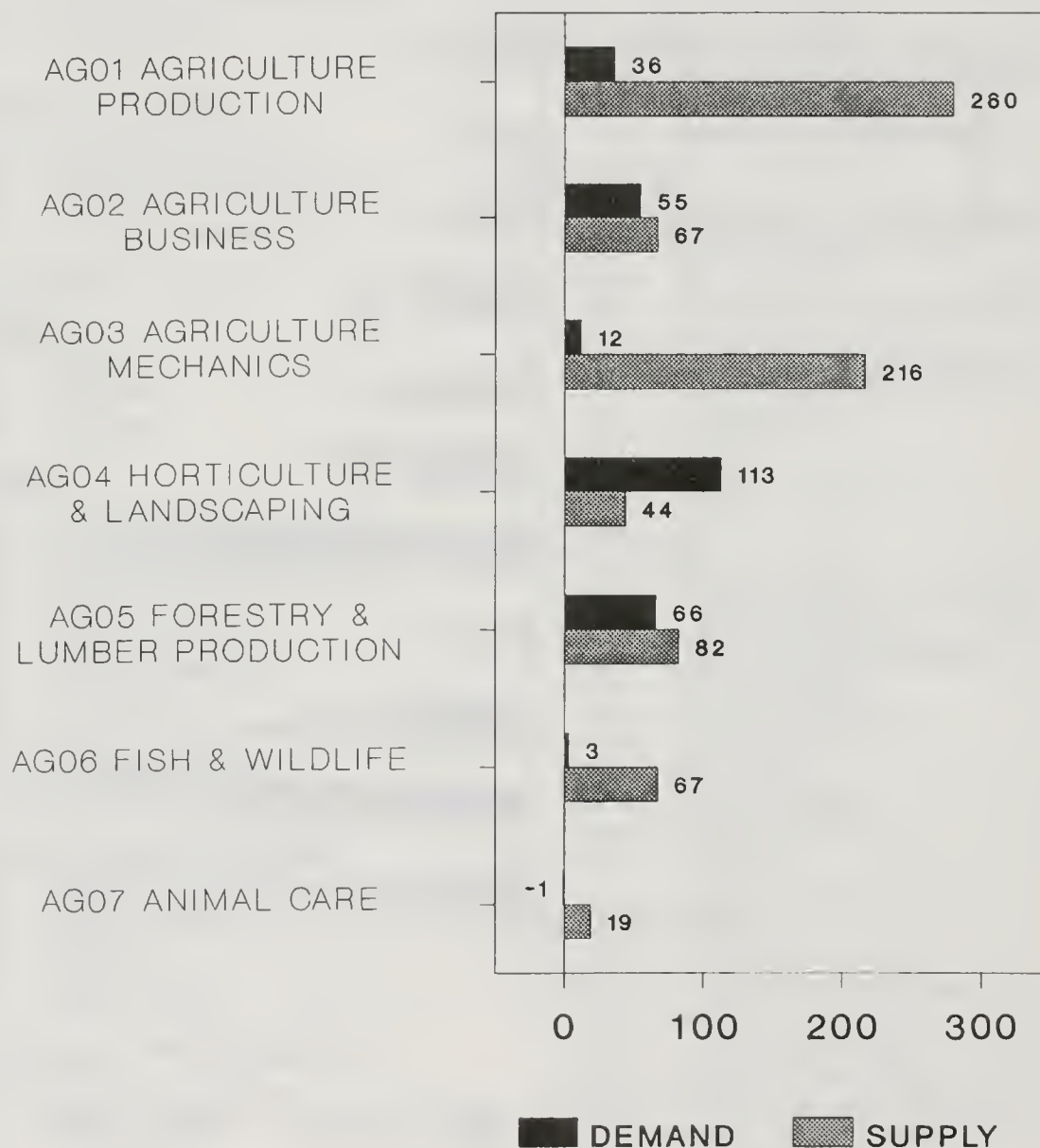
ESTIMATED ANNUAL OPENINGS VS. TRAINING COMPLETERS



# AGRICULTURE CLUSTERS

## DEMAND VS. SUPPLY

ESTIMATED ANNUAL OPENINGS VS. TRAINING COMPLETERS



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| AGRICULTURAL & FOOD SCIENTISTS   | 24305       | 184            | 210            | 3                     | 4                   | 7                 |
| BIOLOGICAL, AGRIC., FOOD TECHN.  | 24502       | 140            | 152            | 1                     | 3                   | 4                 |
| GRADERS & SORTERS, AGRIC.PRODUCT | 79011       | 7              | 8              | 0                     | 1                   | 1                 |
| FARM EQUIPMENT OPERATORS         | 79021       | 5              | 5              | 0                     | 0                   | 0                 |
| ALL OTHER AGRIC.,FOREST,FISH.    | 79999       | 506            | 559            | 6                     | 18                  | 24                |
| ***TOTALS                        |             | 842            | 934            | 10                    | 26                  | 36                |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| AGRICULTURAL PRODUCTI  | 01.0301     | 220              |             |                |      |              |                 |              | 220            |
| ANIMAL PRODUCTION      | 01.0302     |                  |             |                | 2    |              |                 | 2            | 4              |
| CROP PRODUCTION        | 01.0304     |                  |             |                | 5    |              |                 |              | 5              |
| FOOD PRODUCTS          | 01.0402     |                  |             |                | 1    |              |                 |              | 1              |
| AGRICULTURAL SERVICES  | 01.0502     |                  |             |                | 2    |              |                 |              | 2              |
| ANIMAL TRAINING        | 01.0505     |                  |             |                | 1    |              |                 |              | 1              |
| ANIMAL SCIENCES, GENER | 02.0201     |                  |             | 30             |      |              |                 |              | 30             |
| LIVESTOCK              | 02.0208     |                  |             |                | 1    |              |                 |              | 1              |
| AGRONOMY               | 02.0402     |                  |             | 12             |      |              |                 | 1            | 13             |
| ENTOMOLOGY             | 26.0702     |                  |             | 3              |      |              |                 |              | 3              |
| ***TOTALS              |             | 220              |             | 45             | 12   |              |                 | 3            | 280            |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE              | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|------------------------------|--------|--------------|--------------|----------------|
| 403.687-018    | HARVEST WORKER, FRUIT        | 0      | 22           | 3            | N.A.           |
| 404.687-010    | FARMWORKER, FIELD CROP 2     | 0      | 7            | 0            | N.A.           |
| 404.687-014    | HARVEST WORKER, FIELD CROP   | 0      | 4            | 4            | N.A.           |
| 410.134-010    | SUPERVISOR, LIVESTOCK-YARD   | 0      | 0            | 0            | 5.34           |
| 410.674-018    | LIVESTOCK-YARD ATTENDANT     | 0      | 0            | 0            | 4.36           |
| 410.684-010    | FARMWORKER, DAIRY            | 0      | 22           | 0            | N.A.           |
| 529.132-054    | SUPERVISOR, FEED MILL        | 0      | 0            | 0            | 9.03           |
| 529.687-130    | LABORER                      | 0      | 5            | 0            | N.A.           |
| 529.687-186    | SORTER, AGRICULTURAL PRODUCE | 0      | 154          | 4            | N.A.           |
| 920.687-134    | PACKER, AGRICULTURAL PRODUCE | 0      | 13           | 0            | N.A.           |
| 921.683-026    | CONVEYOR OPERATOR            | 0      | 0            | 0            | 5.89           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| PURCHASING AGENTS & BUYERS, FARM | 21305       | 135            | 155            | 2                     | 9                   | 11                |
| PURCHASING AGENT EX.WHO/RET/FARM | 21308       | 324            | 369            | 5                     | 19                  | 24                |
| FARM & HOME MANAGEMENT ADVISORS  | 31323       | 289            | 305            | 2                     | 14                  | 16                |
| FIRST LINE SUPERV.AG,FOREST,FISH | 72002       | 161            | 172            | 1                     | 3                   | 4                 |
| ***TOTALS                        |             | 909            | 1001           | 10                    | 45                  | 55                |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| AGRICULTURAL BUSINESS  | 01.0101     |                  |             | 25             |      |              |                 |              | 25             |
| AGRICULTURAL BUSINESS  | 01.0102     |                  |             | 9              |      |              |                 | 1            | 10             |
| AGRICULTURAL ECONOMIC  | 01.0103     |                  |             | 6              |      |              |                 |              | 6              |
| AGRIBUSINESS & AGRICUL | 01.9999     |                  |             | 10             |      |              |                 |              | 10             |
| RANGE MANAGEMENT       | 02.0409     |                  |             | 6              |      |              |                 |              | 6              |
| SOIL SCIENCES          | 02.0501     |                  |             | 10             |      |              |                 |              | 10             |
| ***TOTALS              |             |                  |             | 66             |      |              |                 | 1            | 67             |

NO ANALYSIS REPORT



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE  | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|--------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| AGRICULTURAL ENGINEERS   | 22123       | 19             | 22             | 0                     | 3                   | 3            |
| FARM EQUIPMENT MECHANICS | 85321       | 272            | 263            | -1                    | 10                  | 9            |
| ***TOTALS                |             | 291            | 285            | -1                    | 13                  | 12           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| AGRICULTURAL MECHANIC | 01.0201     | 193              | 11          | 1              |      |              |                 |              | 205            |
| AGRICULTURAL POWER MA | 01.0204     |                  |             | 6              | 2    |              |                 |              | 8              |
| AGRICULTURAL ENGINEER | 14.0301     |                  |             | 3              |      |              |                 |              | 3              |
| ***TOTALS             |             | 193              | 11          | 10             | 2    |              |                 |              | 216            |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--------------------------------|--------|--------------|--------------|----------------|
| 624.281-010    | FARM-EQUIPMENT MECHANIC 1      | 0      | 35           | 22           | N.A.           |
| 624.381-018    | FARM-MACHINERY SET-UP MECHANIC | 0      | 0            | 0            | 6.49           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| OCCUPATION -<br>TITLE      | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| NURSERY WORKERS            | 79005       | 65             | 73             | 1                     | 7                   | 8            |
| GARDENERS & GROUNDSKEEPERS | 79014       | 860            | 989            | 14                    | 91                  | 105          |
| ***TOTALS                  |             | 925            | 1062           | 15                    | 98                  | 113          |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| PROGRAM -<br>TITLE    | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| HORTICULTURE, GENERAL | 01.0601     |                  |             |                |      | 1            |                 |              | 1              |
| LANDSCAPING           | 01.0605     |                  |             |                | 4    | 1            |                 | 1            | 6              |
| NURSERY OPERATION & M | 01.0606     |                  |             |                | 3    |              |                 |              | 3              |
| TURF MANAGEMENT       | 01.0607     |                  |             |                | 1    |              |                 | 2            | 3              |
| HORTICULTURE SCIENCE  | 02.0403     |                  |             | 14             |      |              |                 | 1            | 15             |
| FLORAL DESIGN         | 20.0504     |                  |             |                | 1    |              |                 | 3            | 4              |
| BOTANY, GENERAL       | 26.0301     |                  |             | 8              |      |              |                 |              | 8              |
| PLANT PATHOLOGY       | 26.0305     |                  |             | 4              |      |              |                 |              | 4              |
| ***TOTALS             |             |                  |             | 26             | 9    | 2            |                 | 7            | 44             |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                      | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--------------------------------------|--------|--------------|--------------|----------------|
| 142.081-010    | FLORAL DESIGNER                      | 0      | 0            | 0            | 4.87           |
| 405.684-014    | HORTICULTURAL WORKER 1               | 0      | 0            | 0            | 4.21           |
| 406.137-010    | GREENSKEEPER 1                       | 0      | 0            | 0            | 13.73          |
| 406.683-010    | GREENSKEEPER 2                       | 0      | 0            | 0            | 5.58           |
| 406.684-010    | CEMETERY WORKER                      | 0      | 14           | 16           | N.A.           |
| 406.684-014    | GROUNDSKEEPER, INDUSTRIAL-COMMERCIAL | 0      | 0            | 0            | 5.16           |
| 408.161-010    | LANDSCAPE GARDENER                   | 0      | 127          | 14           | N.A.           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| FORESTER, CONSERVATION SCIENTIST | 24302       | 688            | 743            | 6                     | 7                   | 13                |
| FALLERS & BUCKERS                | 73002       | 733            | 777            | 5                     | 11                  | 16                |
| CHOKE SETTERS                    | 73005       | 112            | 118            | 1                     | 2                   | 3                 |
| LOG HANDLING EQUIPMENT OPERATORS | 73008       | 236            | 253            | 2                     | 3                   | 5                 |
| LOGGING TRACTOR OPERATORS        | 73011       | 457            | 484            | 3                     | 4                   | 7                 |
| ALL OTHER TIMBER CUTTING WORKERS | 73099       | 3              | 3              | 0                     | 0                   | 0                 |
| FOREST & CONSERVATION WORKERS    | 79002       | 1087           | 1079           | -1                    | 20                  | 19                |
| LOG GRADERS & SCALERS            | 79008       | 62             | 66             | 0                     | 1                   | 1                 |
| HEAD SAWYERS                     | 92305       | 115            | 123            | 1                     | 1                   | 2                 |
| ***TOTALS                        |             | 3493           | 3646           | 17                    | 49                  | 66                |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| FORESTRY PRODUCTION &  | 03.0401     | 32               |             | 1              |      |              |                 |              | 33             |
| FOREST PRODUCTION      | 03.0402     |                  |             |                |      |              |                 | 1            | 1              |
| FOREST PRODUCTS UTILIZ | 03.0403     |                  |             |                |      | 2            |                 |              | 2              |
| FOREST PRODUCTS PROCE  | 03.0404     |                  |             |                |      | 5            |                 |              | 5              |
| LOGGING                | 03.0405     |                  |             |                |      | 5            |                 |              | 5              |
| FORESTRY & RELATED SCI | 03.0501     |                  |             | 12             |      |              |                 |              | 12             |
| FOREST MANAGEMENT      | 03.0506     |                  |             | 20             |      |              |                 |              | 20             |
| FORESTRY & RELATED SCI | 03.0599     |                  |             | 4              |      |              |                 |              | 4              |
| ***TOTALS              |             | 32               |             | 37             | 12   |              |                 | 1            | 82             |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE               | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-------------------------------|--------|--------------|--------------|----------------|
| 040.061-034    | FORESTER                      | 0      | 22           | 5            | N.A.           |
| 452.364-010    | FORESTER AIDE                 | 0      | 486          | 225          | N.A.           |
| 454.384-010    | FALLER 1                      | 0      | 0            | 0            | 12.51          |
| 454.683-010    | TREE-SHEAR OPERATOR0          | 0      | 0            | 0            | 10.65          |
| 454.684-010    | BUCKER                        | 0      | 0            | 0            | 10.43          |
| 454.684-018    | LOGGER, ALL-ROUND             | 0      | 0            | 0            | 11.10          |
| 454.687-010    | CHAINSAW OPERATOR             | 0      | 0            | 0            | 10.37          |
| 455.487-010    | LOG SCALER                    | 0      | 0            | 0            | 11.26          |
| 663.682-010    | BARKER OPERATOR               | 0      | 0            | 0            | 9.29           |
| 665.482-018    | TIMBER-SIZER OPERATOR         | 0      | 0            | 0            | 10.08          |
| 667.482-010    | LOG-CUT-OFF SAWYER, AUTOMATIC | 0      | 0            | 0            | 8.70           |
| 667.482-022    | TRIMMER SAWYER                | 0      | 0            | 0            | 10.01          |
| 667.662-010    | HEAD SAWYER                   | 0      | 0            | 0            | 11.94          |
| 667.682-058    | RESAW OPERATOR                | 0      | 0            | 0            | 9.68           |
| 667.686-014    | SAWMILL WORKER                | 0      | 0            | 0            | 8.38           |
| 669.587-010    | GRADER                        | 0      | 0            | 0            | 10.00          |
| 921.683-058    | LOG LOADER                    | 0      | 0            | 0            | 11.74          |
| 921.687-014    | CHOKE SETTER                  | 0      | 0            | 0            | 12.51          |
| 929.683-010    | LOGGING-TRACTOR OPERATOR      | 0      | 208          | 70           | N.A.           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL 1986-1995 |        |      |
|-------------------------|-------------|----------------|----------------|-----------------------|--------|------|
|                         |             |                |                | GROWTH                | REPLAC | OPEN |
| FISH & GAME WARDENS     | 63041       | 71             | 76             | 1                     | 2      | 3    |
| ***TOTALS               |             | 71             | 76             | 1                     | 2      | 3    |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
|                       |             |                  |             |                |      |              |                 |              |                |
| CONSERVATION & REGULA | 03.0201     |                  |             | 8              |      |              |                 |              | 8              |
| CONSERVATION          | 03.0202     |                  |             |                |      | 7            |                 |              | 7              |
| WILDLIFE MANAGEMENT   | 03.0601     |                  |             | 51             |      |              |                 | 1            | 52             |
| ***TOTALS             |             |                  |             | 59             |      | 7            |                 | 1            | 67             |

NO ANALYSIS REPORT

## DEMAND REPORT

| [STATEWIDE]                    |       | MONTANA DEPARTMENT OF LABOR AND INDUSTRY |        |                       |        |      |
|--------------------------------|-------|--|--------|-----------------------|--------|------|
| - OCCUPATION -                 | OES   | 1986                                     | 1995   | EST. ANNUAL 1986-1995 |        |      |
| TITLE                          | CODE  | EMPLOY                                   | EMPLOY | GROWTH                | REPLAC | OPEN |
| VETERINARIANS, VET. INSPECTORS | 32114 | 22                                       | 25     | 0                     | 0      | 0    |
| ANIMAL CARETAKERS, EXCEPT FARM | 79017 | 83                                       | 69     | -2                    | 1      | -1   |
| ***TOTALS                      |       | 105                                      | 94     | -2                    | 1      | -1   |

## SUPPLY REPORT

| [STATEWIDE]            |         | SCHOOL YEAR 1988-89 |      |        |      |       |        |       |       |
|------------------------|---------|---------------------|------|--------|------|-------|--------|-------|-------|
| - PROGRAM -            | CIP     | PUBLIC              | VOC  | HIGHER | JTPA | JOB   | PRIV.  | VOC   | TOTAL |
| TITLE                  | CODE    | SECOND              | TECH | EDUC   |      | CORPS | SCHOOL | REHAB | ***** |
| HORSE HANDLING & CARE  | 01.0507 |                     |      |        |      | 1     |        |       | 1     |
| CLINICAL ANIMAL TECHNO | 17.0303 |                     |      |        |      | 2     |        |       | 2     |
| VETERINARIAN ASSISTING | 17.0512 |                     |      |        |      | 3     |        | 2     | 5     |
| ZOOLOGY, GENERAL       | 26.0701 |                     |      | 11     |      |       |        |       | 11    |
| ***TOTALS              |         |                     |      | 11     | 6    |       |        | 2     | 19    |

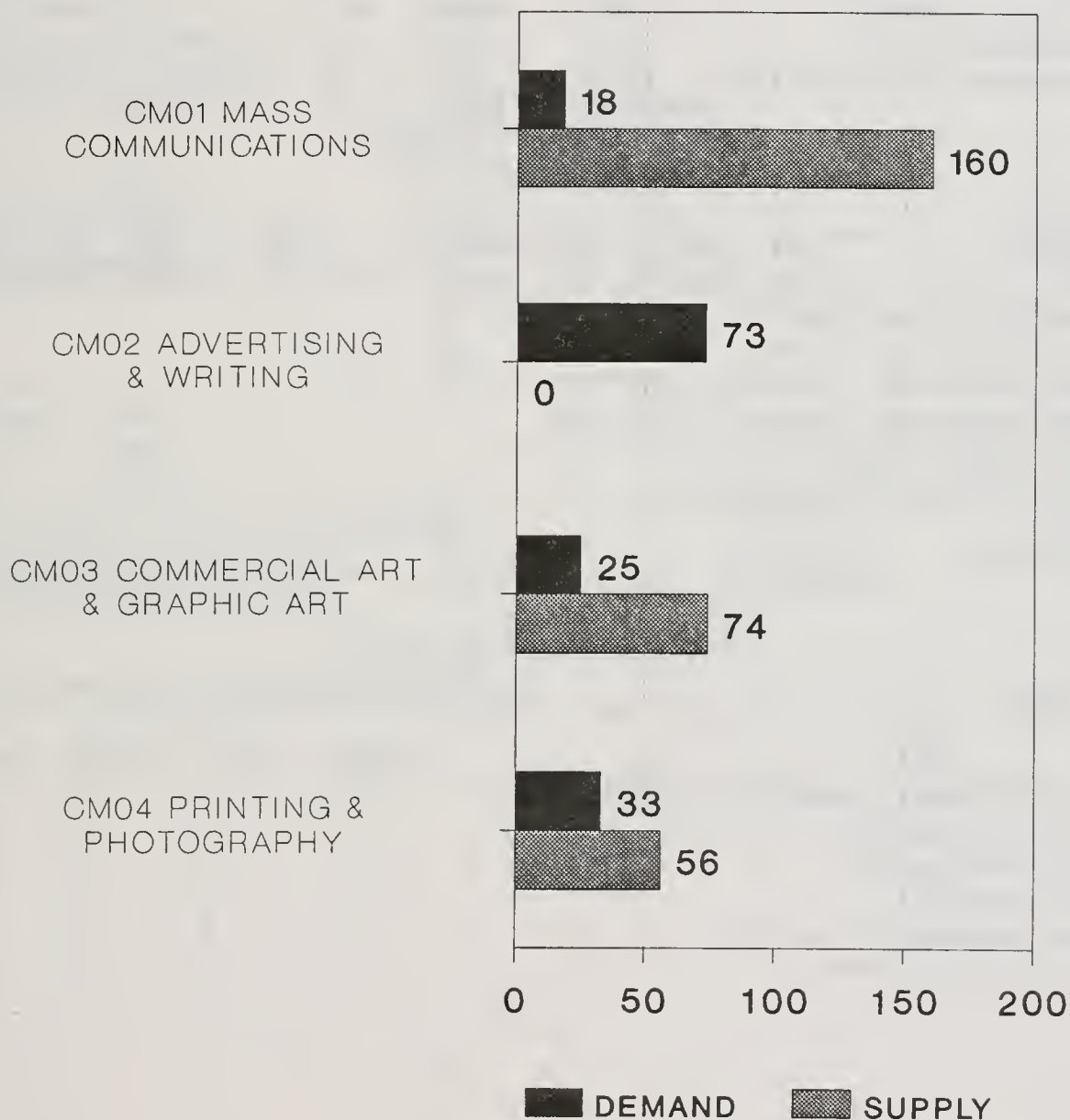
## ANALYSIS INFORMATION

| [STATEWIDE] |              | MONTANA DEPARTMENT OF LABOR AND INDUSTRY |      |      |      |
|-------------|--------------|--|------|------|------|
| D.O.T.      | D.O.T.       | APPREN                                   | J.S. | J.S. | AVG. |
| CODE        | TITLE        |  |      |      |      |
| 073.101-010 | VETERINARIAN | 0  | 7    | 0    | N.A. |
| 410.687-022 | SHEEP HERDER | 0  | 28   | 20   | N.A. |

# COMMUNICATIONS CLUSTERS

## DEMAND VS. SUPPLY

ESTIMATED ANNUAL OPENINGS VS. TRAINING COMPLETERS



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| OCCUPATION -<br>TITLE       | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|-----------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| REPORTERS & CORRESPONDENTS  | 34011       | 197            | 217            | 2                     | 11                  | 13                |
| BROADCAST NEWS ANALYSTS     | 34014       | 59             | 55             | 0                     | 3                   | 3                 |
| ANNOUNCERS, RADIO & TV      | 34017       | 436            | 404            | -4                    | 4                   | 0                 |
| BROADCAST TECHNICIANS       | 34028       | 71             | 69             | 0                     | 1                   | 1                 |
| PROOFREADERS & COPY MARKERS | 53911       | 17             | 19             | 0                     | 1                   | 1                 |
| ***TOTALS                   |             | 780            | 764            | -2                    | 20                  | 18                |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| PROGRAM -<br>TITLE     | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| COMMUNICATIONS, GENE   | 09.0101     |                  |             | 24             |      |              |                 |              | 24             |
| JOURNALISM (MASS COM   | 09.0401     |                  |             | 28             |      |              |                 |              | 28             |
| RADIO, TELEVISION, GEN | 09.0701     | 33               |             | 11             |      |              |                 | 2            | 46             |
| RADIO/TELEVISION PROD  | 10.0104     |                  |             |                |      |              | 40              | 1            | 41             |
| SOUND RECORDING TECH   | 10.0105     |                  |             |                |      |              | 2               |              | 2              |
| VIDEO TECHNOLOGY       | 10.0106     |                  |             |                |      |              |                 | 1            | 1              |
| COMPOSITION            | 23.0401     |                  |             | 3              |      |              |                 |              | 3              |
| CREATIVE WRITING       | 23.0501     |                  |             | 15             |      |              |                 |              | 15             |
| ***TOTALS              |             | 33               |             | 81             |      |              | 42              | 4            | 160            |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                       | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------------------------|--------|--------------|--------------|----------------|
| 003.167-030    | ENGINEER-IN-CHARGE, STUDIO OPERATIONS | 0      | 0            | 0            | 14.29          |
| 131.067-014    | COPY WRITER                           | 0      | 0            | 0            | 8.14           |
| 131.267-010    | NEWSCASTER                            | 0      | 0            | 0            | 6.32           |
| 131.267-018    | REPORTER                              | 0      | 0            | 0            | 6.79           |
| 163.167-014    | MANAGER, CIRCULATION                  | 0      | 6            | 2            | 9.42           |
| 184.167-014    | DIRECTOR, NEWS                        | 0      | 0            | 0            | 8.88           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| MARKETING, ADV., PUBLIC REL.MGRS | 13011       | 700            | 773            | 8                     | 13                  | 21           |
| WRITERS & EDITORS                | 34002       | 306            | 328            | 2                     | 18                  | 20           |
| TECHNICAL WRITERS                | 34005       | 15             | 20             | 1                     | 0                   | 1            |
| PUBLIC RELATIONS SPECIALISTS     | 34008       | 190            | 200            | 1                     | 6                   | 7            |
| SALES AGENTS, ADVERTISING        | 43023       | 429            | 458            | 3                     | 20                  | 23           |
| ADVERTISING CLERKS               | 53908       | 66             | 75             | 1                     | 0                   | 1            |
| ***TOTALS                        |             | 1706           | 1854           | 16                    | 57                  | 73           |

## NO SUPPLY REPORT

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--------------------------------|--------|--------------|--------------|----------------|
| 131.267-026    | WRITER, TECHNICAL PUBLICATIONS | 0      | 21           | 1            | 8.47           |
| 132.037-022    | EDITOR, PUBLICATIONS           | 0      | 0            | 0            | 7.83           |
| 163.167-010    | MANAGER, ADVERTISING           | 0      | 0            | 0            | 8.56           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| ARTISTS & RELATED WORKERS        | 34035       | 92             | 117            | 3                     | 5                   | 8            |
| DESIGNERS, EXC. INTERIOR DESIGN. | 34038       | 195            | 238            | 5                     | 5                   | 10           |
| INTERIOR DESIGNERS               | 34041       | 76             | 99             | 3                     | 2                   | 5            |
| MERCHANDISE DISPLAYERS           | 34044       | 79             | 83             | 0                     | 2                   | 2            |
| ***TOTALS                        |             | 442            | 537            | 11                    | 14                  | 25           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| INTERIOR DESIGN        | 04.0501     |                  |             | 2              |      |              |                 |              | 2              |
| GRAPHIC ARTS           | 21.0106     | 61               |             |                |      |              |                 |              | 61             |
| COMMERCIAL ART         | 48.0203     |                  |             |                | 1    |              |                 | 1            | 2              |
| FIBER/TEXTILES/WEAVING | 50.0204     |                  |             |                | 1    |              |                 |              | 1              |
| GRAPHIC DESIGN         | 50.0402     |                  |             |                |      |              | 4               |              | 4              |
| SCULPTURE              | 50.0709     |                  |             |                | 1    |              |                 |              | 1              |
| PRINTMAKING            | 50.0710     |                  |             |                | 1    |              |                 | 2            | 3              |
| ***TOTALS              |             | 61               |             | 2              | 4    |              | 4               | 3            | 74             |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE  | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|------------------|--------|--------------|--------------|----------------|
| 141.061-018    | GRAPHIC DESIGNER | 0      | 0            | 0            | 6.05           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| PHOTOGRAPHERS                    | 34023       | 106            | 121            | 2                     | 2                   | 4            |
| CAMERA OPERATORS, TV & MOVIES    | 34026       | 34             | 35             | 0                     | 1                   | 1            |
| PRECISION COMPOSITOR, TYPESETTER | 89702       | 61             | 61             | 0                     | 1                   | 1            |
| JOB PRINTERS                     | 89705       | 61             | 67             | 1                     | 2                   | 3            |
| PRECISION LITHOGRAPHERS & PHOTO. | 89708       | 31             | 34             | 0                     | 0                   | 0            |
| BOOKBINDERS                      | 89711       | 11             | 12             | 0                     | 2                   | 2            |
| ALL OTHER PRECISION PRINTING     | 89799       | 1              | 1              | 0                     | 0                   | 0            |
| PHOTOGRAPHIC PROCESS WORKERS     | 89914       | 5              | 5              | 0                     | 0                   | 0            |
| OFFSET LITHOGRAPHIC PRESS SETTER | 92512       | 74             | 80             | 1                     | 2                   | 3            |
| LETTERPRESS SETTER/OPERATOR      | 92515       | 28             | 26             | 0                     | 1                   | 1            |
| ALL OTHER PRINTING PRESS SET/OP. | 92519       | 1              | 1              | 0                     | 0                   | 0            |
| PHOTOENGRAVING & LITH. PHOTOGRA. | 92521       | 18             | 20             | 0                     | 0                   | 0            |
| SCREEN PRINTING MACH. SETTER/OP. | 92524       | 2              | 4              | 0                     | 0                   | 0            |
| BINDERY MACHINE SETTER/OPERATOR  | 92525       | 25             | 27             | 0                     | 0                   | 0            |
| TYPESETTING MACH. OPERATOR/TEND. | 92541       | 85             | 91             | 1                     | 2                   | 3            |
| PRINTING PRESS MACHINE OPERATOR  | 92543       | 134            | 150            | 2                     | 5                   | 7            |
| PHOTOENGRAVING & LITHOG. OPER.   | 92545       | 14             | 15             | 0                     | 0                   | 0            |
| BINDERY MACHINE OPERATORS        | 92546       | 34             | 36             | 0                     | 0                   | 0            |
| ALL OTHER PRINTING, BINDING, REL | 92599       | 2              | 2              | 0                     | 0                   | 0            |
| MOTION PICTURE PROJECTIONISTS    | 92905       | 60             | 51             | -1                    | 8                   | 7            |
| PHOTOGRAPHIC PROCESSING MACH.OP. | 92908       | 62             | 73             | 1                     | 0                   | 1            |
| ***TOTALS                        |             | 849            | 912            | 7                     | 26                  | 33           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE    | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| GRAPHIC & PRINTING CO   | 48.0201     | 41               |             | 5              |      |              |                 |              | 46             |
| COMMERCIAL PHOTOGRAP    | 48.0204     |                  |             |                | 1    |              |                 |              | 1              |
| PHOTOGRAPHIC LABORAT    | 48.0207     |                  |             |                | 1    |              |                 |              | 1              |
| PRINTING PRESS OPERATI  | 48.0208     |                  |             |                | 3    | 1            |                 | 2            | 6              |
| SILK SCREEN MAKING & PR | 48.0209     |                  |             |                | 2    |              |                 |              | 2              |
| ***TOTALS               |             | 41               |             | 5              | 6    | 1            |                 | 3            | 56             |

# ANALYSIS INFORMATION

[STATEWIDE]

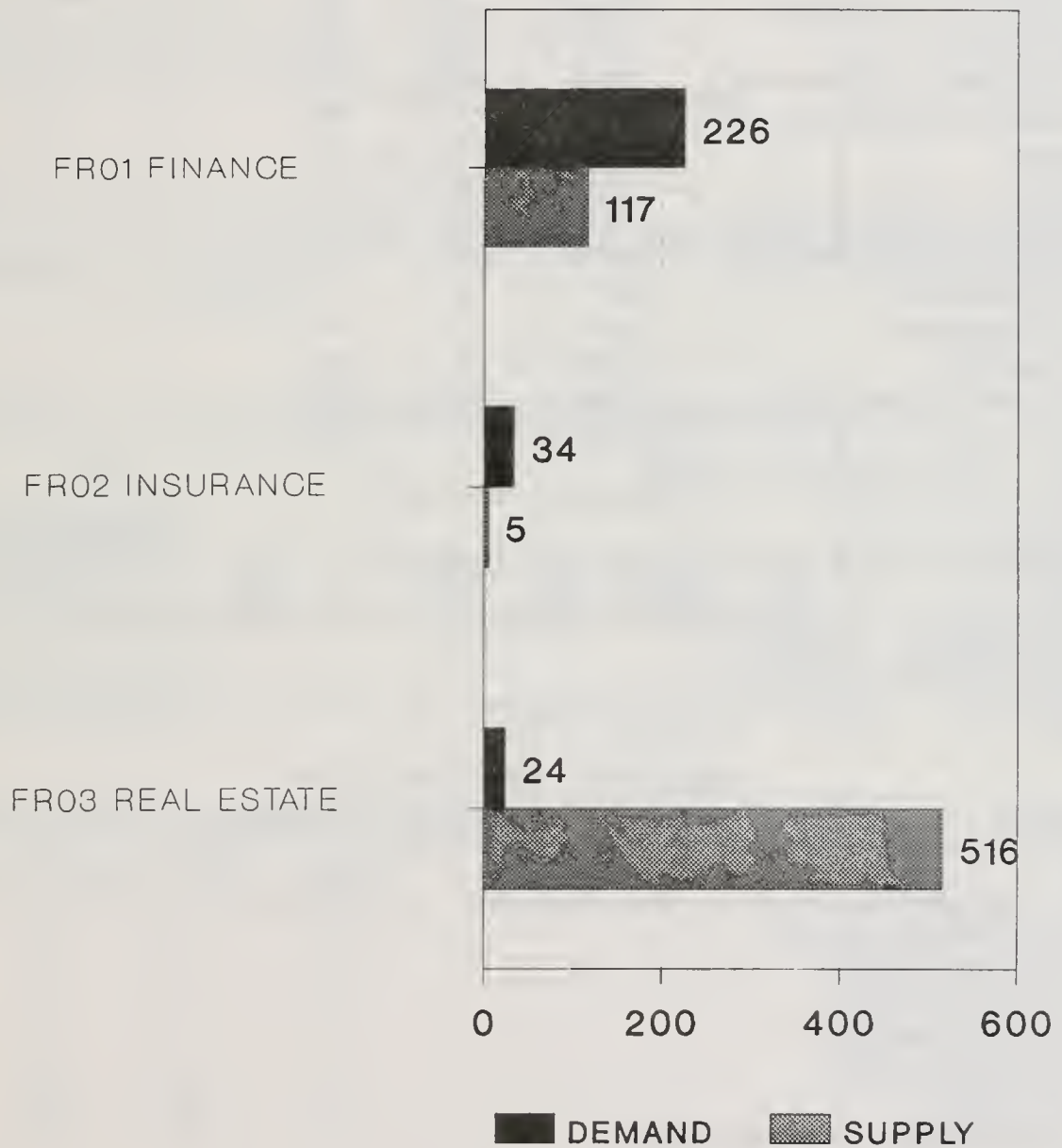
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                    | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|------------------------------------|--------|--------------|--------------|----------------|
| 194.282-010    | VIDEO OPERATOR                     | 0      | 0            | 0            | 6.03           |
| 203.582-062    | TYPESETTER-PERFORATOR OPERATOR     | 0      | 5            | 3            | N.A.           |
| 207.682-018    | OFFSET-DUPICATING-MACHINE OPERATOR | 0      | 0            | 2            | N.A.           |
| 209.387-030    | PROOFREADER                        | 0      | 6            | 1            | N.A.           |
| 650.582-014    | MONOTYPE-KEYBOARD OPERATOR         | 0      | 1            | 0            | N.A.           |
| 650.582-022    | PHOTOTYPESETTER OPERATOR           | 0      | 0            | 0            | 7.03           |
| 651.362-010    | CYLINDER-PRESS OPERATOR            | 0      | 0            | 0            | 7.73           |
| 651.362-030    | WEB-PRESS OPERATOR                 | 2      | 2            | 3            | N.A.           |
| 651.380-010    | PRINTER 2                          | 0      | 0            | 0            | 8.75           |
| 651.482-010    | OFFSET-PRESS OPERATOR 1            | 0      | 0            | 0            | 8.45           |
| 653.382-010    | FOLDING-MACHINE OPERATOR           | 0      | 1            | 0            | N.A.           |
| 653.685-010    | BINDERY WORKER                     | 0      | 0            | 0            | 6.36           |
| 659.130-010    | SUPERVISOR, PRINTING-SHOP          | 0      | 0            | 0            | 10.04          |
| 971.381-050    | STRIPPER                           | 0      | 0            | 1            | 9.54           |
| 972.382-014    | PHOTOGRAPHER, LITHOGRAPHIC         | 0      | 0            | 0            | 8.10           |
| 973.381-010    | COMPOSITOR                         | 0      | 0            | 0            | 6.98           |
| 976.487-010    | PHOTOGRAPH FINISHER                | 0      | 3            | 0            | N.A.           |
| 976.682-014    | PRINTER OPERATOR, BLACK-AND-WHITE  | 0      | 6            | 0            | N.A.           |

# \*FIRE CLUSTERS

## DEMAND VS. SUPPLY

ESTIMATED ANNUAL OPENINGS VS. TRAINING COMPLETERS



\*FIRE = FINANCE, INSURANCE, REAL ESTATE

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE             | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-------------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| FINANCIAL MANAGERS                  | 13002       | 2178           | 2504           | 36                    | 58                  | 94           |
| CREDIT ANALYSTS                     | 21105       | 365            | 424            | 7                     | 13                  | 20           |
| LOAN OFFICERS & COUNSELORS          | 21108       | 303            | 335            | 4                     | 7                   | 11           |
| TAX PREPARERS                       | 21111       | 175            | 185            | 1                     | 4                   | 5            |
| ALL OTHER FINANCIAL SPECIALISTS     | 21199       | 206            | 228            | 2                     | 5                   | 7            |
| TAX EXAMINER, COLLECTOR, REV. AGENT | 21914       | 207            | 206            | 0                     | 10                  | 10           |
| ASSESSORS                           | 21917       | 312            | 345            | 4                     | 15                  | 19           |
| ACTUARIES                           | 25313       | 19             | 27             | 1                     | 1                   | 2            |
| FINANCIAL ANALYSTS, STATISTICAL     | 25315       | 44             | 54             | 1                     | 3                   | 4            |
| SECURITIES, FINANCIAL SERV. SALES   | 43014       | 354            | 471            | 13                    | 21                  | 34           |
| LOAN INTERVIEWERS                   | 53111       | 46             | 55             | 1                     | 1                   | 2            |
| CREDIT AUTHORIZERS                  | 53114       | 18             | 21             | 0                     | 1                   | 1            |
| CREDIT CHECKERS                     | 53117       | 94             | 121            | 3                     | 2                   | 5            |
| BILL & ACCOUNT COLLECTORS           | 53508       | 260            | 324            | 7                     | 5                   | 12           |
| ***TOTALS                           |             | 4581           | 5300           | 80                    | 146                 | 226          |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| BANKING & FINANCE      | 06.0301     |                  |             | 113            |      |              |                 |              | 113            |
| FINANCIAL SERVICES MAR | 08.0401     |                  |             |                | 3    |              |                 | 1            | 4              |
| ***TOTALS              |             |                  | 113         | 3              |      |              | 1               | 117          |                |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE            | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|----------------------------|--------|--------------|--------------|----------------|
| 020.167-014    | FINANCIAL ANALYST          | 0      | 0            | 0            | 18.62          |
| 186.117-074    | TRUST OFFICER              | 0      | 0            | 0            | 15.65          |
| 186.267-018    | LOAN OFFICER               | 0      | 0            | 0            | 12.62          |
| 191.267-014    | CREDIT ANALYST             | 0      | 0            | 0            | 10.25          |
| 205.367-022    | CREDIT CLERK               | 0      | 0            | 0            | 7.24           |
| 211.362-018    | TELLER                     | 0      | 273          | 168          | 5.42           |
| 219.132-014    | SUPERVISOR, TRUST ACCOUNTS | 0      | 0            | 0            | 9.43           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE            | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|------------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| UNDERWRITERS                       | 21102       | 174            | 225            | 6                     | 5                   | 11           |
| SPECIAL AGENTS, INSURANCE          | 21505       | 133            | 174            | 5                     | 3                   | 8            |
| CLAIMS EXAMINERS, INSURANCE        | 21921       | 40             | 50             | 1                     | 2                   | 3            |
| INSURANCE ADJUSTERS, INVESTIGATORS | 53302       | 225            | 291            | 7                     | 5                   | 12           |
| INSURANCE APPRAISERS, AUTO DAMAGE  | 53305       | 4              | 5              | 0                     | 0                   | 0            |
| ***TOTALS                          |             | 576            | 745            | 19                    | 15                  | 34           |

## SUPPLY REPORT

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| INSURANCE CLERK      | 07.0203     |                  |             |                |      | 5            |                 |              | 5              |
| ***TOTALS            |             |                  |             |                |      | 5            |                 |              | 5              |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE     | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------|--------|--------------|--------------|----------------|
| 166.167-046    | SPECIAL AGENT       | 0      | 0            | 0            | 13.21          |
| 169.167-058    | UNDERWRITER         | 0      | 19           | 1            | 7.36           |
| 214.482-022    | RATER               | 0      | 6            | 2            | 5.58           |
| 219.362-042    | POLICY-CHANGE CLERK | 0      | 0            | 0            | 4.94           |
| 241.217-010    | CLAIM ADJUSTER      | 0      | 25           | 3            | 11.66          |
| 241.267-018    | CLAIM EXAMINER      | 0      | 0            | 0            | 11.61          |
| 241.362-010    | CLAIMS CLERK 1      | 0      | 0            | 0            | 7.23           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| PROPERTY, REAL ESTATE MANAGEMENT | 15011       | 5              | 5              | 0                     | 0                   | 0            |
| TITLE SEARCHERS                  | 28308       | 53             | 61             | 1                     | 3                   | 4            |
| BROKERS, REAL ESTATE             | 43005       | 89             | 102            | 1                     | 5                   | 6            |
| SALES AGENTS, REAL ESTATE        | 43008       | 89             | 104            | 2                     | 5                   | 7            |
| REAL ESTATE APPRAISERS           | 43011       | 79             | 95             | 2                     | 5                   | 7            |
| ***TOTALS                        |             | 315            | 367            | 6                     | 18                  | 24           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| REAL ESTATE          | 06.1701     |                  | 27          | 2              |      |              | 487             |              | 516            |
| ***TOTALS            |             |                  | 27          | 2              |      |              | 487             |              | 516            |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

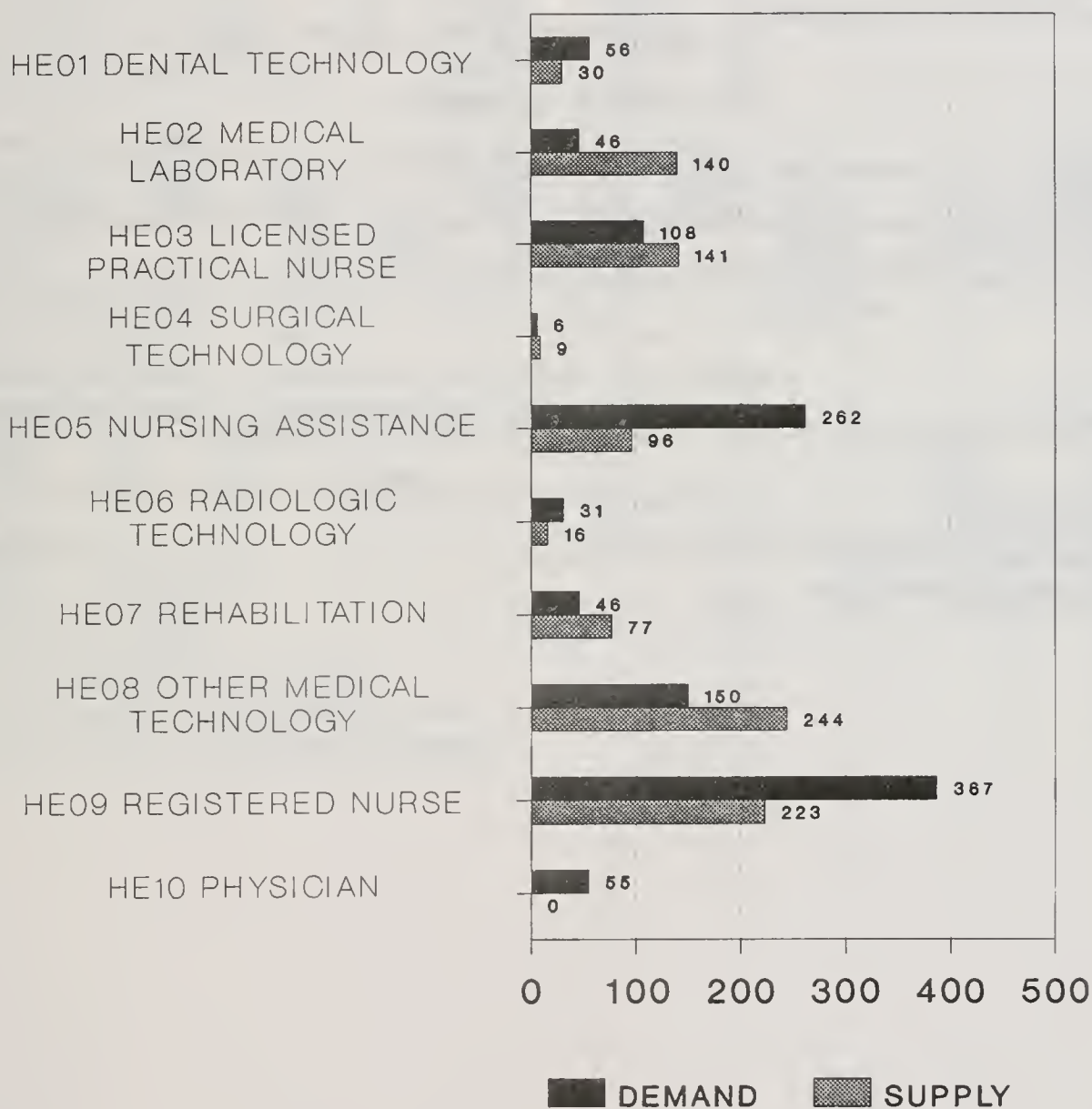
| D.O.T.<br>CODE | D.O.T.<br>TITLE   | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-------------------|--------|--------------|--------------|----------------|
| 186.167-046    | MANAGER, PROPERTY | 0      | 0            | 0            | 11.13          |



# HEALTH CLUSTERS

## DEMAND VS. SUPPLY

ESTIMATED ANNUAL OPENINGS VS. TRAINING COMPLETERS



## DEMAND REPORT

| - OCCUPATION -<br>TITLE       | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL 1986-1995 |        |      |
|-------------------------------|-------------|----------------|----------------|-----------------------|--------|------|
|                               |             |                |                | GROWTH                | REPLAC | OPEN |
| DENTISTS                      | 32105       | 256            | 322            | 7                     | 18     | 25   |
| DENTAL HYGIENISTS             | 32908       | 273            | 344            | 8                     | 2      | 10   |
| DENTAL ASSISTANTS             | 66002       | 574            | 720            | 16                    | 2      | 18   |
| DENTAL LABORATORY TECHNICIANS | 89921       | 52             | 67             | 2                     | 1      | 3    |
| ***TOTALS                     |             | 1155           | 1453           | 33                    | 23     | 56   |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
|                      |             |                  |             |                |      |              |                 |              |                |
| DENTAL ASSISTING     | 17.0101     |                  | 12          |                | 6    |              |                 |              | 18             |
| DENTAL HYGIENE       | 17.0102     |                  |             | 12             |      |              |                 | 12           |                |
| ***TOTALS            |             |                  | 12          | 12             | 6    |              |                 |              | 30             |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE  | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|------------------|--------|--------------|--------------|----------------|
|                |                  |        |              |              |                |
| 072.101-010    | DENTIST          | 0      | 3            | 0            | N.A.           |
| 078.361-010    | DENTAL HYGIENIST | 0      | 5            | 9            | 12.12          |
| 079.371-010    | DENTAL ASSISTANT | 2      | 121          | 53           | 6.00           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|------|
| BIOLOGICAL SCIENTISTS            | 24308       | 391            | 433            | 5                     | 14                  | 19   |
| MEDICAL SCIENTISTS               | 24311       | 23             | 32             | 1                     | 1                   | 2    |
| ALL OTHER LIFE SCIENTISTS        | 24399       | 174            | 187            | 1                     | 2                   | 3    |
| MED./CLINICAL LAB. TECHNOLOGISTS | 32902       | 556            | 647            | 10                    | 6                   | 16   |
| MED./CLINICAL LAB. TECHNICIANS   | 32905       | 187            | 219            | 4                     | 2                   | 6    |
| ***TOTALS                        |             | 1331           | 1518           | 21                    | 25                  | 46   |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| MEDICAL TECHNOLOGY    | 17.0310     |                  |             | 11             |      |              | 8               |              | 19             |
| BIOLOGY, GENERAL      | 26.0101     |                  |             | 86             |      |              |                 | 3            | 89             |
| BIOCHEMISTRY & BIOPHY | 26.0201     |                  |             |                |      |              |                 | 1            | 1              |
| MICROBIOLOGY          | 26.0501     |                  |             | 31             |      |              |                 |              | 31             |
| ***TOTALS             |             |                  |             | 128            |      |              | 8               | 4            | 140            |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE               | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-------------------------------|--------|--------------|--------------|----------------|
| 041.061-030    | BIOLOGIST                     | 0      | 31           | 12           | N.A.           |
| 078.361-014    | MEDICAL TECHNOLOGIST          | 0      | 19           | 8            | 10.88          |
| 078.381-010    | MEDICAL-LABORATORY ASSISTANT  | 0      | 0            | 0            | 8.01           |
| 078.381-014    | MEDICAL-LABORATORY TECHNICIAN | 0      | 12           | 9            | N.A.           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE   | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL 1986-1995 |        |      |
|---------------------------|-------------|----------------|----------------|-----------------------|--------|------|
|                           |             |                |                | GROWTH                | REPLAC | OPEN |
| LICENSED PRACTICAL NURSES | 32505       | 1711           | 2038           | 36                    | 72     | 108  |
| ***TOTALS                 |             | 1711           | 2038           | 36                    | 72     | 108  |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
|                      |             |                  |             |                |      |              |                 |              |                |
| PRACTICAL NURSING    | 17.0605     |                  | 128         |                | 9    |              |                 | 4            | 141            |
| ***TOTALS            |             |                  | 128         |                | 9    |              |                 | 4            | 141            |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE           | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------------|--------|--------------|--------------|----------------|
|                |                           |        |              |              |                |
| 079.374-014    | NURSE, LICENSED PRACTICAL | 0      | 193          | 132          | 6.80           |
| 354.374-010    | NURSE, PRACTICAL          | 0      | 23           | 1            | N.A.           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| SURGICAL TECHNICIANS    | 32928       | 135            | 179            | 5                     | 1                   | 6            |
| ***TOTALS               |             | 135            | 179            | 5                     | 1                   | 6            |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| SURGICAL TECHNOLOGY  | 17.0211     |                  | 9           |                |      |              |                 |              | 9              |
| ***TOTALS            |             |                  | 9           |                |      |              |                 |              | 9              |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE     | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------|--------|--------------|--------------|----------------|
| 079.374-022    | SURGICAL TECHNICIAN | 0      | 10           | 3            | 7.40           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE   | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL 1986-1995 |        |      |
|---------------------------|-------------|----------------|----------------|-----------------------|--------|------|
|                           |             |                |                | GROWTH                | REPLAC | OPEN |
| MEDICAL ASSISTANTS        | 66005       | 196            | 271            | 8                     | 6      | 14   |
| NURSING AIDES & ORDERLIES | 66008       | 3766           | 4532           | 85                    | 119    | 204  |
| HOME HEALTH AIDES         | 66011       | 490            | 532            | 5                     | 39     | 44   |
| ***TOTALS                 |             | 4452           | 5335           | 98                    | 164    | 262  |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
|                      |             |                  |             |                |      |              |                 |              |                |
| NURSING ASSISTING    | 17.0602     |                  | 38          |                | 42   | 13           |                 | 3            | 96             |
| ***TOTALS            |             |                  | 38          |                | 42   | 13           |                 | 3            | 96             |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE   | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-------------------|--------|--------------|--------------|----------------|
|                |                   |        |              |              |                |
| 079.367-010    | MEDICAL ASSISTANT | 0      | 41           | 3            | 5.95           |
| 355.674-014    | NURSE AIDE        | 0      | 1276         | 672          | 5.52           |
| 355.674-018    | ORDERLY           | 0      | 35           | 15           | N.A.           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| NUCLEAR MEDICINE TECHNOLOGISTS   | 32914       | 18             | 23             | 1                     | 0                   | 1            |
| RADIOLOGIC TECHNOL. & TECHNICIAN | 32916       | 403            | 527            | 14                    | 16                  | 30           |
| ***TOTALS                        |             | 421            | 550            | 15                    | 16                  | 31           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE    | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| RADIOLOGIC (MEDICAL) TE | 17.0209     |                  |             |                |      |              | 16              |              | 16             |
| ***TOTALS               |             |                  |             |                |      |              | 16              |              | 16             |

NO ANALYSIS REPORT

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| RESPIRATORY THERAPISTS           | 32302       | 193            | 253            | 7                     | 7                   | 14           |
| OCCUPATIONAL THERAPISTS          | 32305       | 59             | 76             | 2                     | 10                  | 12           |
| PHYSICAL THERAPISTS              | 32308       | 202            | 267            | 7                     | 2                   | 9            |
| CORRECT. & MANUAL ARTS THERAPIST | 32311       | 11             | 13             | 0                     | 0                   | 0            |
| RECREATION THERAPISTS            | 32317       | 83             | 101            | 2                     | 1                   | 3            |
| ALL OTHER THERAPISTS             | 32399       | 37             | 45             | 1                     | 1                   | 2            |
| PHYSICAL, CORRECT.THERAPY ASSIST | 66017       | 126            | 146            | 2                     | 3                   | 5            |
| OCCUPATIONAL THERAPY ASSISTANTS  | 66021       | 27             | 30             | 0                     | 1                   | 1            |
| ***TOTALS                        |             | 738            | 931            | 21                    | 25                  | 46           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| RESPIRATORY THERAPY T  | 17.0210     |                  | 38          |                |      |              |                 |              | 38             |
| EXERCISE PHYSIOLOGY    | 17.0804     |                  |             | 3              |      |              |                 |              | 3              |
| PHYSICAL THERAPY       | 17.0813     |                  |             | 16             |      |              |                 |              | 16             |
| PHYSICAL THERAPY ASSIS | 17.0815     |                  |             |                | 1    |              |                 |              | 1              |
| RESPIRATORY THERAPY    | 17.0818     |                  |             |                | 1    |              |                 | 1            | 2              |
| RESPIRATORY THERAPY A  | 17.0819     |                  |             |                | 1    |              |                 |              | 1              |
| REHABILITATION SERVICE | 17.0899     |                  |             | 16             |      |              |                 |              | 16             |
| ***TOTALS              |             |                  | 38          | 35             | 3    |              |                 | 1            | 77             |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--------------------------------|--------|--------------|--------------|----------------|
| 076.121-010    | OCCUPATIONAL THERAPIST         | 0      | 3            | 1            | N.A.           |
| 076.121-014    | PHYSICAL THERAPIST             | 0      | 4            | 3            | 11.43          |
| 076.364-010    | OCCUPATIONAL THERAPY ASSISTANT | 0      | 1            | 0            | N.A.           |
| 078.362-026    | RADIOLOGIC TECHNOLOGIST        | 0      | 0            | 0            | 9.00           |
| 079.361-010    | RESPIRATORY THERAPIST          | 0      | 19           | 12           | 8.80           |
| 355.354-010    | PHYSICAL THERAPY AIDE          | 0      | 0            | 0            | 6.33           |
| 355.377-010    | OCCUPATIONAL THERAPY AIDE      | 0      | 0            | 0            | 6.65           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE            | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL 1986-1995 |        |      |
|------------------------------------|-------------|----------------|----------------|-----------------------|--------|------|
|                                    |             |                |                | GROWTH                | REPLAC | OPEN |
| PSYCHOLOGISTS                      | 27108       | 222            | 260            | 4                     | 4      | 8    |
| OPTOMETRISTS                       | 32108       | 72             | 89             | 2                     | 2      | 4    |
| ALL OTHER HEALTH PRACTITIONERS     | 32199       | 14             | 15             | 0                     | 2      | 1    |
| SPEECH PATHOLOGISTS,AUDIOLOGISTS   | 32314       | 184            | 216            | 4                     | 1      | 5    |
| PHYSICIAN ASSISTANTS               | 32511       | 112            | 143            | 3                     | 1      | 4    |
| OPTICIANS, DISPENSING & MEASUR.    | 32514       | 215            | 239            | 3                     | 14     | 17   |
| PHARMACISTS                        | 32517       | 429            | 538            | 12                    | 19     | 31   |
| DIETITIANS & NUTRITIONISTS         | 32521       | 172            | 204            | 4                     | 9      | 13   |
| DIETETIC TECHNICIANS               | 32523       | 29             | 35             | 1                     | 2      | 3    |
| ELECTROENCEPHALOGRAPH TECHN.       | 32923       | 14             | 19             | 1                     | 0      | 1    |
| ELECTROCARDIOGRAPH TECHNICIANS     | 32926       | 46             | 62             | 2                     | 0      | 2    |
| ALL OTHER HEALTH PROF., PARA, TECH | 32999       | 653            | 750            | 11                    | 6      | 17   |
| PSYCHIATRIC AIDES                  | 66014       | 283            | 338            | 6                     | 9      | 15   |
| PHARMACY ASSISTANTS                | 66026       | 73             | 94             | 2                     | 2      | 4    |
| ALL OTHER HEALTH SERVICE WORKERS   | 66099       | 221            | 264            | 5                     | 20     | 25   |
| ***TOTALS                          |             | 2739           | 3266           | 60                    | 90     | 150  |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE    | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
|                         |             |                  |             |                |      |              |                 |              |                |
| OPTICAL TECHNOLOGY      | 15.0606     |                  |             |                | 1    |              |                 |              | 1              |
| ALCOHOL/DRUG ABUSE S    | 17.0401     |                  |             | 2              |      |              |                 |              | 2              |
| MENTAL HEALTH/HUMAN S   | 17.0406     |                  |             | 15             | 1    |              |                 |              | 16             |
| MENTAL HEALTH/HUMAN S   | 17.0499     |                  |             | 46             |      |              |                 |              | 46             |
| OPTOMETRIC TECHNOLOG    | 17.0705     |                  |             |                | 1    |              |                 |              | 1              |
| ALLIED HEALTH, OTHER    | 17.9999     |                  |             | 2              |      |              |                 |              | 2              |
| PHARMACY                | 18.1401     |                  |             | 30             |      |              |                 |              | 30             |
| MISC. SPECIALIZED AREAS | 26.0699     |                  |             | 13             |      |              |                 |              | 13             |
| HEALTH-RELATED ACTIVITI | 34.0101     |                  |             | 9              |      |              |                 |              | 9              |
| PSYCHOLOGY, GENERAL     | 42.0101     |                  |             | 124            |      |              |                 |              | 124            |
| ***TOTALS               |             |                  |             | 241            | 3    |              |                 |              | 244            |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                      | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--------------------------------------|--------|--------------|--------------|----------------|
| 074.161-010    | PHARMACIST                           | 0      | 6            | 1            | 14.05          |
| 074.387-010    | PHARMACY HELPER                      | 0      | 0            | 0            | 5.83           |
| 076.107-010    | SPEECH PATHOLOGIST                   | 0      | 0            | 0            | 10.40          |
| 077.117-010    | DIETITIAN, CHIEF                     | 0      | 3            | 2            | N.A.           |
| 077.121-010    | DIETETIC TECHNICIAN                  | 0      | 0            | 0            | 8.86           |
| 078.362-018    | ELECTROCARDIOGRAPH TECHNICIAN        | 0      | 0            | 0            | 6.83           |
| 078.362-022    | ELECTROENCEPHALOGRAPHIC TECHNOLOGIST | 0      | 0            | 0            | 7.21           |
| 079.364-014    | OPTOMETRIC ASSISTANT                 | 0      | 0            | 0            | 6.27           |
| 355.377-014    | PSYCHIATRIC AIDE                     | 0      | 78           | 61           | N.A.           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL 1986-1995 |        |      |
|-------------------------|-------------|----------------|----------------|-----------------------|--------|------|
|                         |             |                |                | GROWTH                | REPLAC | OPEN |
| REGISTERED NURSES       | 32502       | 4851           | 6734           | 209                   | 178    | 387  |
| ***TOTALS               |             | 4851           | 6734           | 209                   | 178    | 387  |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
|                      |             |                  |             |                |      |              |                 |              |                |
| NURSING, GENERAL     | 18.1101     |                  |             | 217            | 3    |              |                 | 2            | 222            |
| NURSING, OTHER       | 18.1199     |                  |             |                |      |              |                 | 1            | 1              |
| ***TOTALS            |             |                  |             | 217            | 3    |              |                 | 3            | 223            |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE           | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------------|--------|--------------|--------------|----------------|
|                |                           |        |              |              |                |
| 075.117-022    | DIRECTOR, NURSING SERVICE | 0      | 0            | 0            | 11.04          |
| 075.127-018    | NURSE, HEAD               | 0      | 0            | 0            | 12.57          |
| 075.127-022    | NURSE, SUPERVISOR         | 0      | 0            | 0            | 12.53          |
| 075.374-010    | NURSE, GENERAL DUTY       | 0      | 146          | 119          | 10.92          |
| 075.374-014    | NURSE, OFFICE             | 0      | 0            | 0            | 9.01           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| PHYSICIANS & SURGEONS   | 32102       | 614            | 766            | 17                    | 36                  | 53           |
| PODIATRISTS             | 32111       | 6              | 6              | 0                     | 2                   | 2            |
| ***TOTALS               |             | 620            | 772            | 17                    | 38                  | 55           |

## NO SUPPLY REPORT

## ANALYSIS INFORMATION

[STATEWIDE]

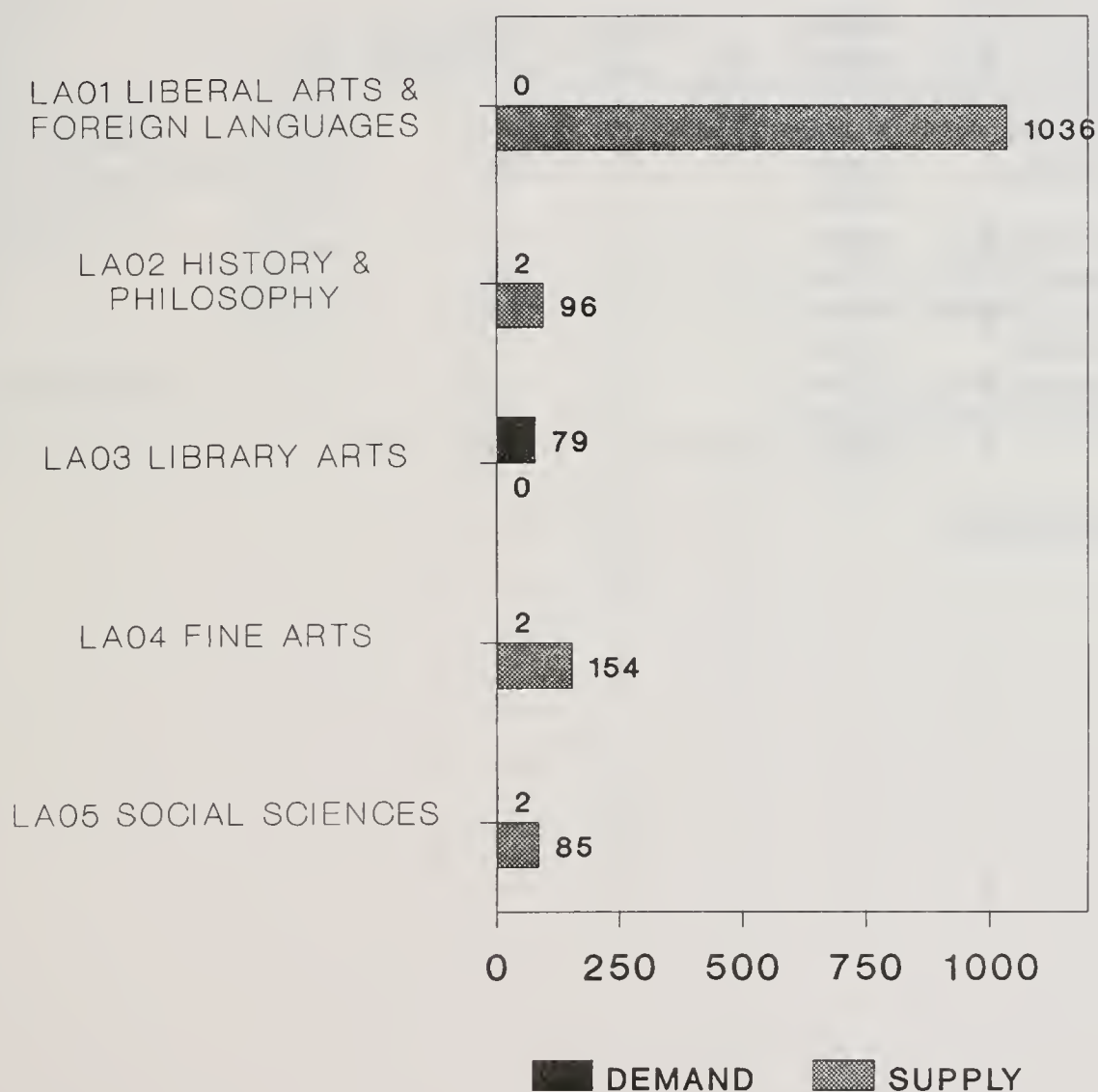
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE        | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|------------------------|--------|--------------|--------------|----------------|
| 045.107-022    | PSYCHOLOGIST, CLINICAL | 0      | 0            | 0            | 12.81          |
| 070.101-022    | GENERAL PRACTITIONER   | 0      | 5            | 2            | N.A.           |
| 071.101-010    | OSTEOPATHIC PHYSICIAN  | 0      | 1            | 0            | N.A.           |

# LIBERAL ARTS/LANGUAGES CLUSTERS

## DEMAND VS. SUPPLY

ESTIMATED ANNUAL OPENINGS VS. TRAINING COMPLETERS



## NO DEMAND REPORT

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE    | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| FOREIGN LANGUAGES, MU   | 16.0101     |                  |             | 14             |      |              |                 |              | 14             |
| RUSSIAN                 | 16.0402     |                  |             | 3              |      |              |                 |              | 3              |
| GERMAN                  | 16.0501     |                  |             | 7              |      |              |                 |              | 7              |
| FRENCH                  | 16.0901     |                  |             | 13             |      |              |                 |              | 13             |
| SPANISH                 | 16.0905     |                  |             | 17             |      |              |                 |              | 17             |
| COMPREHENSIVE CONSUM    | 20.0101     | 474              |             |                |      |              |                 |              | 474            |
| VOCATIONAL HOME ECON    | 20.9999     | 57               |             |                |      |              |                 |              | 57             |
| ENGLISH, GENERAL        | 23.0101     |                  |             | 100            |      |              |                 |              | 100            |
| CLASSICS                | 23.0201     |                  |             | 1              |      |              |                 |              | 1              |
| LITERATURE, ENGLISH     | 23.0801     |                  |             | 14             |      |              |                 |              | 14             |
| SPEECH, DEBATE, & FORE  | 23.1001     |                  |             | 65             |      |              |                 |              | 65             |
| LIBERAL ARTS & SCIENCE  | 24.0101     |                  |             | 200            |      |              |                 |              | 200            |
| GENERAL STUDIES         | 24.0102     |                  |             | 13             |      |              |                 |              | 13             |
| LIBERAL/GENERAL STUDIE  | 24.0199     |                  |             | 9              |      |              |                 |              | 9              |
| MULTI/INTERDISCIPLINARY | 30.9999     |                  |             | 49             |      |              |                 |              | 49             |
| ***TOTALS               |             | 531              |             | 505            |      |              |                 |              | 1036           |

## NO ANALYSIS REPORT

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL 1986-1995<br>GROWTH REPLAC OPEN |   |   |
|----------------------------------|-------------|----------------|----------------|---|---|---|
| CURATORS,ARCHIVISTS, MUSEUM TECH | 31511       | 16             | 23             | 1   | 1 | 2 |
| ***TOTALS                        |             | 16             | 23             | 1   | 1 | 2 |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| AMERICAN STUDIES       | 05.0102     |                  |             | 2              |      |              |                 |              | 2              |
| CANADIAN STUDIES       | 05.0115     |                  |             |                |      |              |                 | 1            | 1              |
| AMERICAN INDIAN STUDIE | 05.0202     |                  |             | 4              |      |              |                 |              | 4              |
| PHILOSOPHY             | 38.0101     |                  |             | 8              |      |              |                 |              | 8              |
| ANTHROPOLOGY           | 45.0201     |                  |             | 10             |      |              |                 |              | 10             |
| HISTORY                | 45.0801     |                  |             | 71             |      |              |                 |              | 71             |
| ***TOTALS              |             |                  |             | 95             |      |              |                 | 1            | 96             |

NO ANALYSIS REPORT

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE         | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|---------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| LIBRARIANS, PROFESSIONAL        | 31502       | 607            | 700            | 10                    | 36                  | 46           |
| TECHNICAL ASSISTANTS, LIBRARY   | 31505       | 254            | 292            | 4                     | 15                  | 19           |
| AUDIO-VISUAL SPECIALISTS        | 31508       | 31             | 37             | 1                     | 2                   | 3            |
| LIBRARY ASSISTANTS & BOOKMOBILE | 53902       | 367            | 415            | 5                     | 6                   | 11           |
| ***TOTALS                       |             | 1259           | 1444           | 20                    | 59                  | 79           |

## NO SUPPLY REPORT

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE            | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|----------------------------|--------|--------------|--------------|----------------|
| 100.127-014    | LIBRARIAN                  | 0      | 19           | 7            | N.A.           |
| 100.167-026    | LIBRARIAN, SPECIAL LIBRARY | 0      | 0            | 0            | 6.74           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| MUSICIANS, INSTRUMENTAL          | 34051       | 54             | 62             | 1                     | 1                   | 2            |
| PROD.,DIRECT.,ACTORS,ENTERTAINER | 34056       | 6              | 5              | 0                     | 0                   | 0            |
| ***TOTALS                        |             | 60             | 67             | 1                     | 1                   | 2            |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| CRAFTS, GENERAL      | 50.0201     |                  |             | 9              |      |              |                 |              | 9              |
| DANCE                | 50.0301     |                  |             | 1              |      |              |                 |              | 1              |
| DRAMATIC ARTS        | 50.0501     |                  |             | 77             |      |              |                 |              | 77             |
| FINE ARTS, GENERAL   | 50.0701     |                  |             | 35             |      |              |                 |              | 35             |
| DRAWING              | 50.0705     |                  |             | 21             |      |              |                 |              | 21             |
| MUSIC, GENERAL       | 50.0901     |                  |             | 10             |      |              |                 |              | 10             |
| MUSIC PERFORMANCE    | 50.0903     |                  |             |                |      |              |                 | 1            | 1              |
| ***TOTALS            |             |                  |             | 153            |      |              |                 | 1            | 154            |

NO ANALYSIS REPORT

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE     | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL 1986-1995<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-----------------------------|-------------|----------------|----------------|---------------------------------|---------------------|--------------|
| ALL OTHER SOCIAL SCIENTISTS | 27199       | 111            | 116            | 1                               | 1                   | 2            |
| ***TOTALS                   |             | 111            | 116            | 1                               | 1                   | 2            |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

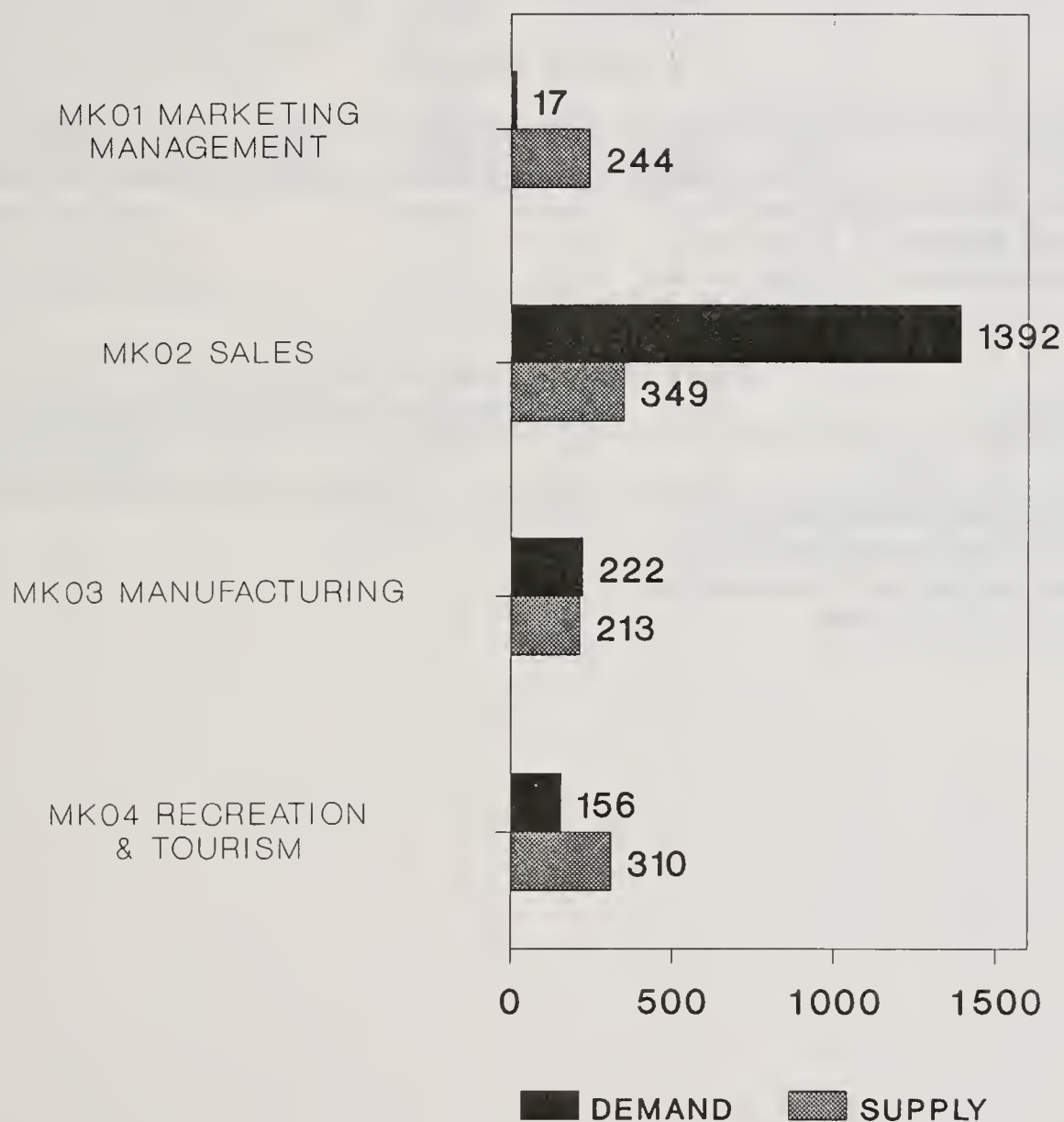
| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| SOCIAL SCIENCES, GENER | 45.0101     |                  |             | 4              |      |              |                 |              | 4              |
| ECONOMICS              | 45.0601     |                  |             | 23             |      |              |                 |              | 23             |
| SOCIOLOGY              | 45.1101     |                  |             | 57             |      |              |                 |              | 57             |
| SOCIAL SCIENCES, OTHER | 45.9999     |                  |             | 1              |      |              |                 |              | 1              |
| ***TOTALS              |             |                  |             | 85             |      |              |                 |              | 85             |

NO ANALYSIS REPORT

# MARKETING CLUSTERS

## DEMAND VS. SUPPLY

ESTIMATED ANNUAL OPENINGS VS. TRAINING COMPLETERS



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE     | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-----------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| PURCHASING MANAGERS         | 13008       | 714            | 807            | 10                    | 4                   | 14           |
| ECONOMISTS, MARKET ANALYSTS | 27102       | 83             | 92             | 1                     | 2                   | 3            |
| ***TOTALS                   |             | 797            | 899            | 11                    | 6                   | 17           |

## SUPPLY REPORT

[STATEWIDE] SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| SMALL BUSINESS MANAGE | 06.1801     |                  |             | 13             |      |              |                 |              | 13             |
| MARKETING, GENERAL    | 08.0708     |                  | 2           |                |      |              |                 |              | 2              |
| GENERAL MARKETING, OT | 08.0799     | 212              | 17          |                |      |              |                 |              | 229            |
| ***TOTALS             |             | 212              | 19          | 13             |      |              |                 |              | 244            |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE           | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------------|--------|--------------|--------------|----------------|
| 012.167-050    | PRODUCTION PLANNER        | 0      | 0            | 0            | 11.32          |
| 050.067-014    | MARKET-RESEARCH ANALYST 1 | 0      | 0            | 0            | 15.22          |
| 183.117-014    | PRODUCTION SUPERINTENDENT | 0      | 0            | 0            | 15.49          |
| 185.167-038    | MANAGER, PARTS            | 0      | 0            | 0            | 9.42           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| OCCUPATION -<br>TITLE                | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|--------------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| WHOLESALE, RETAIL BUYERS, EX. FARM   | 21302       | 642            | 692            | 6                     | 21                  | 27           |
| FIRST LINE SUPERVISORS, SALES        | 41002       | 2037           | 2328           | 32                    | 83                  | 115          |
| INSURANCE SALES WORKERS              | 43002       | 710            | 910            | 22                    | 26                  | 48           |
| SALES AGENTS, BUSINESS SERVICES      | 43017       | 205            | 230            | 3                     | 8                   | 11           |
| ALL OTHER SERVICE SALES OCC.         | 43099       | 107            | 140            | 4                     | 5                   | 9            |
| SALES ENGINEERS                      | 49002       | 12             | 14             | 0                     | 1                   | 1            |
| SALES REPS, SCIENTIF. PROD. EXC. RET | 49005       | 398            | 435            | 4                     | 14                  | 18           |
| SALES REPS, EXC. SCIENTIF & RETAIL   | 49008       | 1901           | 2078           | 20                    | 68                  | 88           |
| SALESPERSONS, RETAIL                 | 49011       | 11085          | 12064          | 109                   | 495                 | 604          |
| SALESPERSONS, PARTS                  | 49014       | 1305           | 1360           | 6                     | 28                  | 34           |
| COUNTER & RENTAL CLERKS              | 49017       | 306            | 375            | 8                     | 11                  | 19           |
| CASHIERS                             | 49023       | 6397           | 7807           | 157                   | 167                 | 324          |
| VENDORS, SOLICITORS, DOOR-TO-DOOR    | 49026       | 184            | 224            | 4                     | 7                   | 11           |
| DEMONSTRATORS, PROMOTERS, MODELS     | 49032       | 31             | 40             | 1                     | 1                   | 2            |
| ALL OTHER SALES & RELATED OCC.       | 49999       | 450            | 503            | 6                     | 45                  | 51           |
| ORDER FILLERS, SALES                 | 58026       | 388            | 367            | -2                    | 10                  | 8            |
| DRIVER/SALES WORKERS                 | 97117       | 838            | 888            | 6                     | 16                  | 22           |
| ***TOTALS                            |             | 26996          | 30455          | 386                   | 1006                | 1392         |



# SUPPLY REPORT

| [STATEWIDE]             |         |        |      |        |      | SCHOOL YEAR 1988-89 |        |       |       |
|-------------------------|---------|--------|------|--------|------|---------------------|--------|-------|-------|
| - PROGRAM -             | CIP     | PUBLIC | VOC  | HIGHER |      | JOB                 | PRIV.  | VOC   | TOTAL |
| TITLE                   | CODE    | SECOND | TECH | EDUC   | JTPA | CORPS               | SCHOOL | REHAB | ***** |
| FASHION MERCHANDISING   | 08.0102 |        | 6    |        |      |                     |        |       | 6     |
| FASHION MODELING        | 08.0103 |        |      |        |      |                     | 60     |       | 60    |
| BUSINESS & PERSONAL S   | 08.0201 |        |      |        |      |                     | 12     |       | 12    |
| MARKETING OF BUSINESS   | 08.0203 |        |      |        | 1    |                     |        |       | 1     |
| SUPERMARKET MARKETIN    | 08.0604 |        |      |        | 1    |                     |        | 2     | 3     |
| AUCTIONEERING           | 08.0701 |        |      |        |      |                     | 82     |       | 82    |
| RETAILING               | 08.0705 |        | 3    |        | 18   | 5                   |        | 6     | 32    |
| SALES                   | 08.0706 |        | 3    |        | 24   |                     |        | 7     | 34    |
| WHOLESALE               | 08.0707 |        |      |        | 4    |                     |        |       | 4     |
| BUILDING MATERIALS MA   | 08.0803 |        |      |        | 1    |                     |        | 1     | 2     |
| HARDWARE MARKETING      | 08.0806 |        |      |        | 1    |                     |        |       | 1     |
| OFFICE PRODUCTS & EQU   | 08.0807 |        |      |        | 2    |                     |        |       | 2     |
| RECREATIONAL PRODUCTS   | 08.0904 |        |      |        | 6    |                     |        | 2     | 8     |
| WAITER/WAITRESS & RELA  | 08.0905 |        |      |        |      |                     |        | 2     | 4     |
| INSURANCE MARKETING     | 08.1001 |        |      |        | 1    |                     | 74     |       | 75    |
| AUTOMOTIVE VEHICLES &   | 08.1203 |        |      |        | 4    |                     |        | 3     | 7     |
| PETROLEUM WHOLESALE     | 08.1204 |        |      |        | 1    |                     |        |       | 1     |
| SERVICE STATION RETAILI | 08.1206 |        |      |        | 7    | 5                   |        | 1     | 13    |
| HOME DECORATING         | 20.0505 |        |      |        | 2    |                     |        | 2     | 4     |
| HOME FURNISHINGS AIDE   | 20.0506 |        |      |        | 1    |                     |        | 1     | 2     |
| ***TOTALS               |         |        | 12   |        | 74   | 10                  | 228    | 27    | 353   |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                        | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--|--------|--------------|--------------|----------------|
| 162.157-018    | BUYER                                  | 0      | 0            | 0            | 9.51           |
| 162.157-038    | PURCHASING AGENT                       | 0      | 84           | 15           | 9.89           |
| 162.167-010    | BUYER, GRAIN                           | 0      | 0            | 0            | 7.29           |
| 163.167-018    | MANAGER, SALES                         | 0      | 93           | 4            | 13.46          |
| 185.167-034    | MANAGER, MERCHANDISE                   | 0      | 0            | 0            | 9.82           |
| 185.167-046    | MANAGER, RETAIL STORE                  | 0      | 958          | 59           | 9.43           |
| 185.167-058    | SERVICE MANAGER                        | 0      | 0            | 0            | 10.30          |
| 187.167-126    | MANAGER, LIQUOR ESTABLISHMENT          | 0      | 0            | 0            | 6.51           |
| 189.167-018    | MANAGEMENT TRAINEE                     | 0      | 0            | 0            | 5.26           |
| 211.362-010    | CASHIER 1                              | 0      | 333          | 119          | 4.28           |
| 211.462-014    | CASHIER-CHECKER                        | 0      | 0            | 0            | 4.75           |
| 249.367-054    | ORDER CLERK                            | 0      | 0            | 0            | 6.60           |
| 250.257-010    | SALES AGENT, INSURANCE                 | 0      | 109          | 12           | 7.45           |
| 250.357-018    | SALES AGENT, REAL ESTATE               | 0      | 59           | 4            | N.A.           |
| 251.357-014    | SALES AGENT, FINANCIAL-REPORT SERVICE  | 0      | 1            | 0            | N.A.           |
| 254.357-014    | SALES REPRESENTATIVE, ADVERTISING      | 0      | 45           | 43           | N.A.           |
| 261.357-050    | SALESPERSON, MEN'S AND BOYS' CLOTHING  | 0      | 28           | 21           | N.A.           |
| 261.357-054    | SALESPERSON, MEN'S FURNISHINGS         | 0      | 6            | 1            | N.A.           |
| 261.357-062    | SALESPERSON, SHOES                     | 0      | 39           | 42           | N.A.           |
| 261.357-066    | SALESPERSON, WOMEN'S APPAREL AND ACCES | 0      | 110          | 91           | N.A.           |
| 273.353-010    | SALESPERSON, AUTOMOBILES               | 0      | 112          | 34           | N.A.           |
| 273.357-022    | SALES REPRESENTATIVE, MOTOR VEHICLES A | 0      | 15           | 5            | N.A.           |
| 274.357-022    | SALES REPRESENTATIVE, CONSTRUCTION MAC | 0      | 3            | 1            | N.A.           |
| 275.257-010    | SALES REPRESENTATIVE, COMPUTERS AND ED | 0      | 0            | 0            | 8.59           |
| 275.357-034    | SALES REPRESENTATIVE, OFFICE MACHINES  | 0      | 11           | 23           | N.A.           |
| 277.357-034    | SALESPERSON, BOOKS                     | 0      | 20           | 6            | N.A.           |
| 279.357-014    | SALES REPRESENTATIVE, GENERAL MERCHAND | 0      | 0            | 0            | 8.63           |
| 279.357-050    | SALESPERSON, GENERAL HARDWARE          | 0      | 72           | 65           | 6.00           |
| 279.357-054    | SALESPERSON, GENERAL MERCHANDISE       | 0      | 223          | 158          | 5.14           |
| 279.357-062    | SALESPERSON, PARTS                     | 0      | 115          | 70           | 7.10           |
| 290.477-014    | SALES CLERK                            | 0      | 1856         | 863          | 4.67           |
| 290.477-018    | SALES CLERK, FOOD                      | 0      | 162          | 188          | 4.32           |
| 292.353-010    | DRIVER, SALES ROUTE                    | 0      | 277          | 226          | 7.09           |
| 292.483-010    | COIN COLLECTOR                         | 0      | 10           | 3            | N.A.           |
| 299.137-010    | MANAGER, DEPARTMENT                    | 0      | 63           | 9            | 3.81           |
| 299.367-014    | STOCK CLERK, SELF-SERVICE STORE        | 0      | 0            | 0            | 5.74           |
| 299.477-010    | DELIVERER, MERCHANDISE                 | 0      | 0            | 0            | 4.66           |
| 915.467-010    | AUTOMOBILE-SERVICE-STATION ATTENDANT   | 0      | 269          | 118          | 4.86           |
| 920.687-014    | BAGGER                                 | 0      | 273          | 349          | 3.63           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| FIRST LINE SUPERV.: PRODUCTION   | 81008       | 658            | 653            | -1                    | 18                  | 17           |
| OTHER INSPECTERS,TESTER,GRADER   | 83004       | 373            | 412            | 4                     | 14                  | 18           |
| MECHANICAL CONTROL INSTAL.& REPR | 85928       | 66             | 73             | 1                     | 0                   | 1            |
| ALL OTHER MECHANICS, INSTALLERS  | 85999       | 665            | 751            | 10                    | 32                  | 42           |
| DETAIL DESIGN DECORATORS & PAINT | 89911       | 18             | 20             | 0                     | 0                   | 0            |
| MEDICAL APPLIANCE MAKERS         | 89923       | 6              | 6              | 0                     | 0                   | 0            |
| PAPER GOODS MACHINE SETTER/OPER. | 92914       | 46             | 63             | 2                     | 2                   | 4            |
| COOKING MACHINE OPER., FOOD/TOB. | 92917       | 5              | 5              | 0                     | 0                   | 0            |
| ROASTING,DRYING OPER., FOOD/TOB. | 92921       | 10             | 9              | 0                     | 0                   | 0            |
| FURNACE, KILN, OVEN,KETTLE OPER. | 92923       | 135            | 108            | -3                    | 2                   | -1           |
| DAIRY PROCESSING EQUIP. OPERATOR | 92932       | 75             | 77             | 0                     | 1                   | 1            |
| CUTTING & SLICING MACHINE OPER.  | 92944       | 44             | 50             | 1                     | 1                   | 2            |
| COATING, PAINTING SETTER/OPER.   | 92951       | 11             | 8              | 0                     | 0                   | 0            |
| COATING, PAINTING MACH. OPER.    | 92953       | 47             | 51             | 0                     | 1                   | 1            |
| CEMENTING & GLUING MACHINE OPER. | 92956       | 122            | 131            | 1                     | 4                   | 5            |
| CLEANING, PICKLING EQUIP. OPER.  | 92958       | 20             | 20             | 0                     | 0                   | 0            |
| SEPARATING, FILTERING MACH. OP.  | 92962       | 30             | 32             | 0                     | 1                   | 1            |
| CRUSHING & MIXING MACHINE OPER.  | 92965       | 457            | 513            | 6                     | 18                  | 24           |
| EXTRUDING, FORMING SETTER/OPER.  | 92968       | 35             | 34             | 0                     | 1                   | 1            |
| EXTRUDING & FORMING OPERATOR     | 92971       | 29             | 34             | 1                     | 1                   | 2            |
| PACKAGING & FILLING MACHINE OPER | 92974       | 300            | 306            | 1                     | 11                  | 12           |
| ALL OTHER MACHINE SETTERS/OPER.  | 92997       | 51             | 57             | 1                     | 1                   | 2            |
| ALL OTHER MACHINE OPERATORS      | 92998       | 390            | 414            | 3                     | 6                   | 9            |
| MOLDERS & CASTERS, HAND          | 93944       | 3              | 3              | 0                     | 0                   | 0            |
| PAINTING & COATING, HAND         | 93947       | 11             | 12             | 0                     | 0                   | 0            |
| GRINDING & POLISHING, HAND       | 93953       | 108            | 107            | 0                     | 4                   | 4            |
| ALL OTHER ASSEMBLERS, FABRICATOR | 93956       | 487            | 519            | 4                     | 26                  | 30           |
| ALL OTHER HAND WORKERS           | 93999       | 167            | 151            | -2                    | 1                   | -1           |
| MACHINE FEEDERS & OFFBEARERS     | 98502       | 1203           | 1280           | 9                     | 23                  | 32           |
| HAND PACKERS & PACKAGERS         | 98902       | 507            | 581            | 8                     | 8                   | 16           |
| ***TOTALS                        |             | 6079           | 6480           | 46                    | 176                 | 222          |

# SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| FOOD PROCESSING TECH   | 15.0602     |                  |             |                | 2    |              |                 |              | 2              |
| CUSTOM DRAPERY & WIND  | 20.0502     |                  |             |                | 1    |              |                 |              | 1              |
| MANUFACTURING/MATERIA  | 21.0107     | 174              |             |                | 9    |              |                 | 4            | 187            |
| MUSICAL INSTRUMENT RE  | 47.0404     |                  |             |                | 1    |              |                 |              | 1              |
| SPORTING-GOODS EQUIPM  | 47.0407     |                  |             |                | 1    |              |                 | 1            | 2              |
| PRECISION WORK, ASSORT | 48.0699     |                  |             |                | 5    |              | 6               | 1            | 12             |
| FURNITURE MAKING       | 48.0702     |                  |             |                | 1    |              |                 | 1            | 2              |
| MILLWORK & CABINET MAK | 48.0703     |                  |             |                | 5    |              |                 | 1            | 6              |
| ***TOTALS              |             | 174              |             |                | 25   |              | 6               | 8            | 213            |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                        | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--|--------|--------------|--------------|----------------|
| 012.167-042    | MANUFACTURING ENGINEER                 | 0      | 5            | 0            | N.A.           |
| 012.261-014    | QUALITY-CONTROL TECHNICIAN             | 0      | 0            | 0            | 11.51          |
| 222.367-050    | PRESCRIPTION CLERK, LENS-AND-FRAMES    | 0      | 1            | 1            | N.A.           |
| 534.662-010    | BACK TENDER, PAPER MACHINE             | 0      | 4            | 0            | N.A.           |
| 556.685-022    | COMPRESSION-MOLDING-MACHINE TENDER     | 0      | 1            | 0            | N.A.           |
| 559.567-010    | LABORER, GENERAL                       | 0      | 2            | 0            | N.A.           |
| 589.686-026    | LABORER, GENERAL                       | 0      | 1            | 0            | N.A.           |
| 638.261-010    | AUTOMATED EQUIPMENT ENGINEER-TECHNICIA | 0      | 2            | 0            | N.A.           |
| 641.685-022    | CARTON-FORMING-MACHINE OPERATOR        | 0      | 1            | 0            | N.A.           |
| 649.685-046    | FOLDING-MACHINE OPERATOR               | 0      | 1            | 0            | N.A.           |
| 660.280-010    | CABINETMAKER                           | 0      | 89           | 40           | 7.28           |
| 683.682-038    | WEAVER                                 | 0      | 1            | 0            | N.A.           |
| 699.682-022    | DIE CUTTER                             | 0      | 1            | 2            | N.A.           |
| 706.687-010    | ASSEMBLER, PRODUCTION                  | 0      | 0            | 0            | 8.08           |
| 709.684-014    | ASSEMBLER, METAL FURNITURE             | 0      | 0            | 1            | N.A.           |
| 710.681-010    | ASSEMBLER                              | 0      | 2            | 0            | N.A.           |
| 712.687-010    | ASSEMBLER, HOSPITAL SUPPLIES           | 0      | 1            | 0            | N.A.           |
| 731.687-034    | TOY ASSEMBLER                          | 0      | 0            | 1            | N.A.           |
| 732.684-066    | FISHING-ROD ASSEMBLER                  | 0      | 1            | 0            | N.A.           |
| 737.587-014    | FIREWORKS ASSEMBLER                    | 0      | 2            | 12           | N.A.           |
| 739.687-030    | ASSEMBLER, SMALL PRODUCTS              | 0      | 49           | 42           | N.A.           |
| 741.684-026    | PAINTER, SPRAY 1                       | 0      | 14           | 3            | 8.45           |
| 741.687-018    | PAINTER, SPRAY 2                       | 0      | 3            | 2            | N.A.           |
| 750.685-014    | TIRE RECAPPER                          | 0      | 0            | 0            | 7.19           |
| 754.684-030    | FINISHER, HAND                         | 0      | 1            | 0            | N.A.           |
| 754.687-010    | LABORER, GENERAL                       | 0      | 2            | 0            | N.A.           |
| 763.684-014    | CABINET ASSEMBLER                      | 0      | 5            | 0            | N.A.           |
| 772.281-010    | GLASS BLOWER, LABORATORY APPARATUS     | 0      | 1            | 0            | N.A.           |
| 789.687-070    | GARMENT INSPECTOR                      | 0      | 1            | 0            | N.A.           |
| 806.381-058    | TRAILER ASSEMBLER                      | 0      | 1            | 0            | N.A.           |
| 806.684-010    | ASSEMBLER, AUTOMOBILE                  | 0      | 3            | 0            | N.A.           |
| 809.684-010    | ASSEMBLER, PRODUCTION LINE             | 0      | 1            | 0            | N.A.           |
| 819.684-010    | WELDER, PRODUCTION LINE                | 0      | 4            | 0            | N.A.           |
| 827.684-010    | APPLIANCE ASSEMBLER, LINE              | 0      | 3            | 0            | N.A.           |
| 920.587-018    | PACKAGER, HAND                         | 0      | 119          | 156          | 7.26           |
| 920.685-078    | PACKAGER, MACHINE                      | 0      | 16           | 20           | N.A.           |
| 920.687-126    | MARKER 2                               | 0      | 1            | 0            | N.A.           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| RECREATION WORKERS               | 27311       | 264            | 286            | 2                     | 3                   | 5            |
| ATHLETE, COACH, UMPIRE & RELATED | 34058       | 104            | 123            | 2                     | 1                   | 3            |
| TRAVEL AGENTS                    | 43021       | 283            | 374            | 10                    | 13                  | 23           |
| RESERVATION & TRANS.TICKET AGENT | 53805       | 341            | 460            | 13                    | 9                   | 22           |
| HOTEL DESK CLERKS                | 53808       | 786            | 829            | 5                     | 60                  | 65           |
| AMUSEMENT & RECREATION ATTENDANT | 68014       | 508            | 672            | 18                    | 8                   | 26           |
| GUIDES                           | 68017       | 31             | 37             | 1                     | 2                   | 3            |
| USHERS, LOBBY ATT., TICKET TAKER | 68021       | 93             | 89             | 0                     | 5                   | 5            |
| BAGGAGE PORTERS & BELLHOPS       | 68023       | 93             | 91             | 0                     | 4                   | 4            |
| ***TOTALS                        |             | 2503           | 2961           | 51                    | 105                 | 156          |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| MARKETING OF HOTEL/MO  | 08.0902     |                  |             |                | 3    |              |                 | 1            | 4              |
| MARKETING OF RECREATI  | 08.0903     |                  |             |                | 7    |              |                 | 5            | 12             |
| TOURISM                | 08.1104     |                  |             |                | 3    |              |                 |              | 3              |
| TRAVEL SERVICES MARKET | 08.1105     |                  |             |                | 4    |              | 12              |              | 16             |
| CARD DEALING           | 12.0203     |                  |             |                | 5    |              |                 | 1            | 6              |
| OUTDOOR RECREATION     | 31.0201     |                  |             |                | 1    |              | 242             |              | 243            |
| PARKS & RECREATION MA  | 31.0301     |                  |             | 26             |      |              |                 |              | 26             |
| ***TOTALS              |             |                  |             | 26             | 23   |              | 254             | 7            | 310            |

# ANALYSIS INFORMATION

[STATEWIDE]

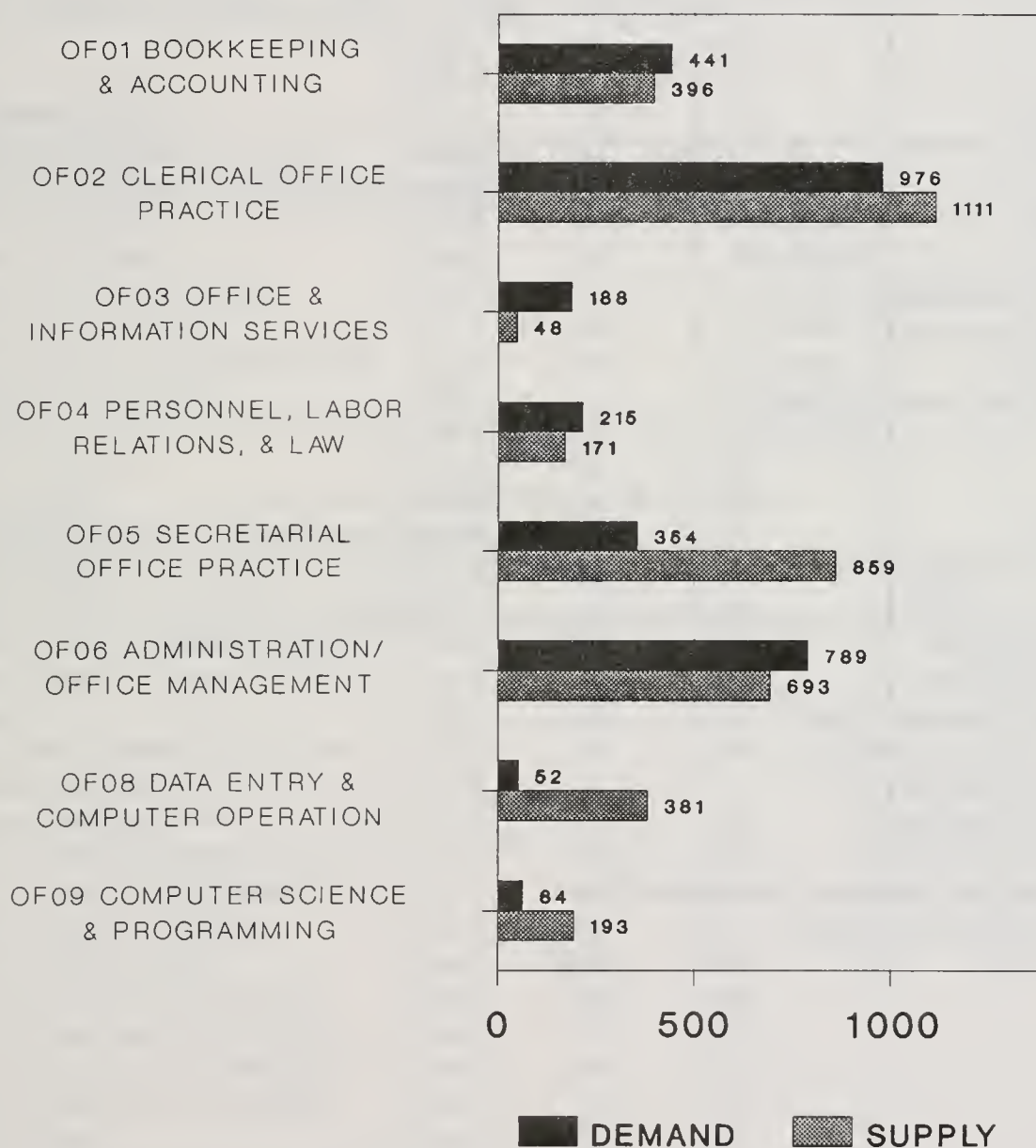
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                 | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------------------|--------|--------------|--------------|----------------|
| 159.124-010    | COUNSELOR, CAMP                 | 0      | 28           | 30           | N.A.           |
| 159.147-010    | ANNOUNCER                       | 0      | 0            | 0            | 5.64           |
| 187.117-038    | MANAGER, HOTEL OR MOTEL         | 0      | 0            | 0            | 4.29           |
| 187.137-010    | RECREATION SUPERVISOR           | 0      | 0            | 0            | 5.85           |
| 187.167-114    | MANAGER, GOLF CLUB              | 0      | 0            | 0            | 6.62           |
| 187.167-154    | MANAGER, THEATER                | 0      | 10           | 2            | N.A.           |
| 238.362-010    | HOTEL CLERK                     | 0      | 322          | 238          | 4.27           |
| 238.367-026    | TICKET AGENT                    | 0      | 25           | 18           | N.A.           |
| 252.157-010    | TRAVEL AGENT                    | 0      | 0            | 0            | 5.55           |
| 324.677-010    | BELLHOP                         | 0      | 0            | 0            | 3.29           |
| 329.467-010    | ATTENDANT, LODGING FACILITIES   | 0      | 0            | 0            | 3.50           |
| 340.367-010    | DESK CLERK, BOWLING FLOOR       | 0      | 0            | 0            | 4.58           |
| 341.367-010    | RECREATION-FACILITY ATTENDANT   | 0      | 0            | 0            | 3.86           |
| 344.667-010    | TICKET TAKER                    | 0      | 0            | 0            | 3.78           |
| 732.364-014    | SKI-BINDING FITTER-AND-REPAIRER | 0      | 0            | 0            | 4.55           |
| 732.684-122    | SPORTS-EQUIPMENT REPAIRER       | 0      | 0            | 0            | 5.25           |

# OFFICE CLUSTERS

## DEMAND VS. SUPPLY

ESTIMATED ANNUAL OPENINGS VS. TRAINING COMPLETERS



## DEMAND REPORT

| [STATEWIDE]                     |             | MONTANA DEPARTMENT OF LABOR AND INDUSTRY |                |                       |                     |      |
|---------------------------------|-------------|--|----------------|-----------------------|---------------------|------|
| - OCCUPATION -<br>TITLE         | OES<br>CODE | 1986<br>EMPLOY                           | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | OPEN |
| ACCOUNTANTS & AUDITORS          | 21114       | 1998                                     | 2505           | 56                    | 73                  | 129  |
| BOOKKEEPING & ACCOUNTING CLERKS | 55338       | 7029                                     | 7522           | 55                    | 257                 | 312  |
| ***TOTALS                       |             | 9027                                     | 10027          | 111                   | 330                 | 441  |

## SUPPLY REPORT

| [STATEWIDE]             |             |                  |             |                |      | SCHOOL YEAR 1988-89 |                 |              |                |
|-------------------------|-------------|------------------|-------------|----------------|------|---------------------|-----------------|--------------|----------------|
| - PROGRAM -<br>TITLE    | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS        | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
| ACCOUNTING              | 06.0201     |                  |             | 174            | 1    |                     |                 |              | 175            |
| TAXATION                | 06.1901     |                  |             |                |      |                     | 123             |              | 123            |
| ACCOUNTING, BOOKKEEPING | 07.0101     |                  | 66          | 4              |      |                     |                 |              | 70             |
| ACCOUNTING & COMPUTING  | 07.0102     |                  |             |                | 4    |                     |                 | 4            | 8              |
| BOOKKEEPING             | 07.0103     |                  |             |                | 14   | 2                   |                 | 3            | 19             |
| ACCOUNTING, BOOKKEEPING | 07.0199     |                  |             | 1              |      |                     |                 |              | 1              |
| ***TOTALS               |             |                  | 66          | 179            | 19   | 2                   | 123             | 7            | 396            |

## ANALYSIS INFORMATION

| [STATEWIDE]    |                                | MONTANA DEPARTMENT OF LABOR AND INDUSTRY |              |              |                |
|----------------|--------------------------------|--|--------------|--------------|----------------|
| D.O.T.<br>CODE | D.O.T.<br>TITLE                | APPREN                                   | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
| 160.162-014    | AUDITOR                        | 0  | 19           | 11           | 11.76          |
| 160.167-010    | ACCOUNTANT                     | 0  | 208          | 49           | 11.18          |
| 160.167-018    | ACCOUNTANT, COST               | 0  | 0            | 0            | 11.03          |
| 160.167-034    | AUDITOR, INTERNAL              | 0  | 0            | 0            | 10.88          |
| 210.382-010    | AUDIT CLERK                    | 0  | 21           | 16           | N.A.           |
| 210.382-014    | BOOKKEEPER 1                   | 0  | 774          | 249          | 6.62           |
| 210.382-018    | BOOKKEEPER 2                   | 0  | 486          | 172          | N.A.           |
| 210.382-022    | BOOKKEEPING-MACHINE OPERATOR 1 | 0  | 3            | 1            | 4.45           |
| 216.482-010    | ACCOUNTING CLERK               | 0  | 207          | 99           | 6.38           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE             | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|-------------------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| MEDICAL RECORDS TECHNIC. & TECHNOL. | 32911       | 214            | 295            | 9                     | 4                   | 13                |
| STOCK CLERKS, SALES FLOOR           | 49021       | 2734           | 2982           | 28                    | 110                 | 138               |
| FIRST LINE SUPERVISORS, CLERICAL    | 51002       | 2300           | 2559           | 29                    | 59                  | 88                |
| TELLERS                             | 53102       | 1540           | 1625           | 9                     | 14                  | 23                |
| NEW ACCOUNTS CLERKS                 | 53105       | 295            | 332            | 4                     | 10                  | 14                |
| TRANSIT CLERKS                      | 53108       | 80             | 86             | 1                     | 1                   | 2                 |
| LOAN & CREDIT CLERKS                | 53121       | 506            | 588            | 9                     | 23                  | 32                |
| ADJUSTMENT CLERKS                   | 53123       | 274            | 302            | 3                     | 5                   | 8                 |
| STATEMENT CLERKS                    | 53126       | 166            | 184            | 2                     | 6                   | 8                 |
| BROKERAGE CLERKS                    | 53128       | 29             | 32             | 0                     | 1                   | 1                 |
| INSURANCE EXAMINING CLERKS          | 53308       | 9              | 10             | 0                     | 0                   | 0                 |
| INSURANCE CLAIMS CLERKS             | 53311       | 150            | 174            | 3                     | 3                   | 6                 |
| INSURANCE POLICY PROCESS. CLERKS    | 53314       | 357            | 448            | 10                    | 17                  | 27                |
| INVESTIGATORS, CLERICAL             | 53505       | 12             | 16             | 0                     | 0                   | 0                 |
| COURT CLERKS                        | 53702       | 252            | 292            | 4                     | 11                  | 15                |
| MUNICIPAL CLERKS                    | 53705       | 153            | 168            | 2                     | 7                   | 9                 |
| LICENSE CLERKS                      | 53708       | 80             | 88             | 1                     | 3                   | 4                 |
| REAL ESTATE CLERKS                  | 53914       | 120            | 141            | 2                     | 5                   | 7                 |
| STENOGRAPHERS                       | 55302       | 287            | 189            | -11                   | 4                   | -7                |
| TYPISTS                             | 55307       | 1254           | 1226           | -3                    | 43                  | 40                |
| PERSONNEL CLERKS, EXCEPT PAYROLL    | 55314       | 264            | 286            | 2                     | 9                   | 11                |
| CORRESPONDENCE CLERKS               | 55317       | 95             | 111            | 2                     | 4                   | 6                 |
| FILE CLERKS                         | 55321       | 402            | 415            | 1                     | 11                  | 12                |
| ORDER CLERKS: MATERIALS, SERVICE    | 55323       | 308            | 342            | 4                     | 5                   | 9                 |
| PROCUREMENT CLERKS                  | 55326       | 67             | 75             | 1                     | 2                   | 3                 |
| STATISTICAL CLERKS                  | 55328       | 116            | 102            | -2                    | 2                   | 0                 |
| INTERVIEWING CLERKS, EX. PERSONNEL  | 55332       | 585            | 752            | 19                    | 22                  | 41                |
| PAYROLL & TIMEKEEPING CLERKS        | 55341       | 493            | 476            | -2                    | 7                   | 5                 |
| BILLING, COST & RATE CLERKS         | 55344       | 1016           | 1141           | 14                    | 30                  | 44                |
| GENERAL OFFICE CLERKS               | 55347       | 6336           | 6671           | 37                    | 224                 | 261               |
| BILL., POST, CALCULATING MACH.OP    | 56002       | 362            | 405            | 5                     | 5                   | 10                |
| DUPLICATING MACHINE OPERATORS       | 56005       | 64             | 64             | 0                     | 1                   | 1                 |
| ALL OTHER OFFICE MACH. OPERATORS    | 56099       | 94             | 100            | 1                     | 1                   | 2                 |
| WEIGHERS, MEASURERS, CHECKERS       | 58017       | 35             | 36             | 0                     | 2                   | 2                 |
| MARKING CLERKS                      | 58021       | 118            | 126            | 1                     | 3                   | 4                 |
| STOCK CLERKS: STOCKROOM OR WAREH.   | 58023       | 1643           | 1613           | -3                    | 42                  | 39                |
| TRAFFIC, SHIPPING, & REC. CLERKS    | 58028       | 1404           | 1497           | 10                    | 17                  | 27                |
| ALL OTHER CLERICAL & ADM.SUPPORT    | 59999       | 1261           | 1407           | 16                    | 55                  | 71                |
| ***TOTALS                           |             | 25475          | 27356          | 208                   | 768                 | 976               |



# SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE            | CIP<br>CODE        | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA   | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|---------------------------------|--------------------|------------------|-------------|----------------|--------|--------------|-----------------|--------------|----------------|
| MACHINE BILLING, BOOK<br>TELLER | 07.0104<br>07.0205 |                  |             |                | 2<br>1 |              |                 | 1            | 3<br>1         |
| STENOGRAPHIC                    | 07.0607            |                  | 2           | 1              |        |              |                 | 1            | 4              |
| TYPING, GENERAL OFFIC           | 07.0701            | 944              |             |                | 3      |              |                 | 1            | 948            |
| CLERK-TYPIST                    | 07.0702            |                  | 7           | 1              | 5      | 39           |                 |              | 52             |
| GENERAL OFFICE CLERK            | 07.0705            |                  | 11          | 3              | 43     | 8            |                 | 9            | 74             |
| SHIPPING, RECEIVING,            | 07.0708            |                  |             |                | 6      | 2            |                 | 3            | 11             |
| TRAFFIC RATE & TRANSP           | 07.0709            |                  |             |                | 2      |              |                 |              | 2              |
| TYPING, GENERAL OFFIC           | 07.0799            |                  | 4           |                |        | 3            |                 |              | 7              |
| BUSINESS (ADMINISTRAT           | 07.9999            |                  |             |                |        |              |                 | 1            | 1              |
| MEDICAL RECORDS TECHN           | 17.0506            |                  |             |                | 6      |              |                 | 1            | 7              |
| HEALTH UNIT COORDINAT           | 17.0513            |                  |             |                | 1      |              |                 |              | 1              |
| ***TOTALS                       |                    | 944              | 24          | 5              | 69     | 52           |                 | 17           | 1111           |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE               | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-------------------------------|--------|--------------|--------------|----------------|
| 202.362-014    | STENOGRAPHER                  | 0      | 12           | 4            | 6.71           |
| 203.362-010    | CLERK-TYPIST                  | 0      | 272          | 154          | 5.87           |
| 203.582-058    | TRANSCRIBING-MACHINE OPERATOR | 0      | 0            | 0            | 6.11           |
| 203.582-066    | TYPIST                        | 0      | 40           | 35           | N.A.           |
| 205.362-014    | EMPLOYMENT CLERK              | 0      | 11           | 17           | N.A.           |
| 205.362-026    | NEW-ACCOUNTS CLERK            | 0      | 0            | 0            | 6.87           |
| 205.367-018    | CLAIMS CLERK 2                | 0      | 0            | 0            | 7.53           |
| 206.362-010    | FILE CLERK 1                  | 0      | 75           | 48           | 4.91           |
| 206.367-014    | FILE CLERK 2                  | 0      | 10           | 2            | N.A.           |
| 209.367-046    | TITLE SEARCHER                | 0      | 0            | 0            | 5.05           |
| 209.387-010    | CODING CLERK                  | 0      | 1            | 3            | 5.03           |
| 209.562-010    | CLERK, GENERAL                | 0      | 1515         | 772          | 5.93           |
| 209.687-010    | CHECKER 2                     | 0      | 30           | 25           | N.A.           |
| 209.687-022    | SORTER                        | 0      | 2            | 3            | N.A.           |
| 214.362-022    | INSURANCE CLERK               | 0      | 25           | 16           | 6.71           |
| 214.382-014    | BILLING TYPIST                | 0      | 15           | 1            | 7.10           |
| 214.482-010    | BILLING-MACHINE OPERATOR      | 0      | 0            | 0            | 5.71           |
| 215.482-010    | PAYROLL CLERK                 | 0      | 48           | 29           | 7.44           |
| 216.362-014    | COLLECTION CLERK              | 0      | 0            | 0            | 6.69           |
| 216.382-034    | COST CLERK                    | 0      | 4            | 1            | N.A.           |
| 216.382-062    | STATISTICAL CLERK             | 0      | 0            | 0            | 9.91           |
| 216.482-022    | CALCULATING-MACHINE OPERATOR  | 0      | 2            | 0            | N.A.           |
| 217.382-010    | PROOF-MACHINE OPERATOR        | 0      | 23           | 30           | 5.36           |
| 219.362-010    | ADMINISTRATIVE CLERK          | 0      | 1098         | 643          | 5.23           |
| 219.367-038    | UNDERWRITING CLERK            | 0      | 0            | 0            | 6.02           |
| 221.382-018    | PRODUCTION CLERK              | 0      | 0            | 0            | 7.34           |
| 222.387-026    | INVENTORY CLERK               | 0      | 0            | 0            | 6.68           |
| 222.387-050    | SHIPPING AND RECEIVING CLERK  | 0      | 0            | 0            | 6.19           |
| 239.567-010    | OFFICE HELPER                 | 0      | 0            | 0            | 5.96           |
| 241.267-030    | INVESTIGATOR                  | 0      | 0            | 0            | 4.97           |
| 245.362-010    | MEDICAL-RECORD CLERK          | 0      | 0            | 0            | 5.93           |
| 245.362-014    | WARD CLERK                    | 0      | 28           | 16           | N.A.           |
| 247.367-010    | CLASSIFIED-AD CLERK 1         | 0      | 5            | 1            | N.A.           |
| 249.382-010    | MORTGAGE CLERK                | 0      | 0            | 0            | 6.66           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| OCCUPATION -<br>TITLE              | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | OPEN |
|------------------------------------|-------------|----------------|----------------|-----------------------|---------------------|------|
| RADIO OPERATORS                    | 39008       | 11             | 12             | 0                     | 0                   | 0    |
| TRAVEL CLERKS                      | 53802       | 40             | 41             | 0                     | 1                   | 1    |
| RECEPTIONISTS, INFORMATION CLERKS  | 55305       | 2059           | 2289           | 26                    | 49                  | 75   |
| MAIL MACHINE OPERATORS             | 56008       | 68             | 74             | 1                     | 3                   | 4    |
| SWITCHBOARD OPERATORS              | 57102       | 590            | 704            | 13                    | 12                  | 25   |
| DIRECTORY ASSISTANCE OPERATORS     | 57105       | 25             | 23             | 0                     | 0                   | 0    |
| CENTRAL OFFICE OPERATORS           | 57108       | 218            | 191            | -3                    | 4                   | 1    |
| TELEGRAPH & TELETYPE OPERATORS     | 57111       | 5              | 5              | 0                     | 0                   | 0    |
| ALL OTHER COMMUNICATION OPERATOR   | 57199       | 7              | 8              | 0                     | 0                   | 0    |
| MAIL CLERKS, EXC. MAIL MACHINE     | 57302       | 171            | 169            | 0                     | 3                   | 3    |
| POSTAL MAIL CARRIERS               | 57305       | 626            | 675            | 5                     | 47                  | 52   |
| POSTAL SERVICE CLERKS              | 57308       | 309            | 301            | -1                    | 12                  | 11   |
| MESSENGERS                         | 57311       | 67             | 68             | 0                     | 1                   | 1    |
| DISPATCHERS: EXC. POL., FIRE, AMB. | 58005       | 390            | 418            | 3                     | 6                   | 9    |
| PRODUCTION, EXPEDITING CLERKS      | 58008       | 170            | 177            | 1                     | 5                   | 6    |
| ***TOTALS                          |             | 4756           | 5155           | 45                    | 143                 | 188  |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| PROGRAM -<br>TITLE            | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-------------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| RECEPTIONIST & COMMUN 07.0707 |             |                  | 4           |                | 38   |              |                 | 6            | 48             |
| ***TOTALS                     |             |                  | 4           |                | 38   |              |                 | 6            | 48             |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                      | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--------------------------------------|--------|--------------|--------------|----------------|
| 205.362-018    | HOSPITAL-ADMITTING CLERK             | 0      | 20           | 22           | N.A.           |
| 205.367-054    | SURVEY WORKER                        | 0      | 37           | 102          | 5.28           |
| 209.587-026    | MAIL CLERK                           | 0      | 68           | 75           | 5.45           |
| 209.687-014    | MAIL HANDLER                         | 0      | 16           | 14           | N.A.           |
| 235.462-010    | CENTRAL-OFFICE OPERATOR              | 0      | 27           | 5            | N.A.           |
| 235.662-022    | TELEPHONE OPERATOR                   | 0      | 118          | 143          | 8.12           |
| 235.662-026    | TELEPHONE-ANSWERING-SERVICE OPERATOR | 0      | 3            | 9            | N.A.           |
| 237.367-010    | APPOINTMENT CLERK                    | 0      | 4            | 2            | N.A.           |
| 237.367-022    | INFORMATION CLERK                    | 0      | 6            | 0            | N.A.           |
| 237.367-038    | RECEPTIONIST                         | 0      | 956          | 538          | 5.28           |
| 239.367-010    | CUSTOMER-SERVICE REPRESENTATIVE      | 0      | 0            | 0            | 6.08           |
| 241.357-010    | COLLECTION CLERK                     | 0      | 41           | 18           | N.A.           |
| 249.167-014    | DISPATCHER, MOTOR VEHICLE            | 0      | 39           | 8            | 7.80           |
| 299.357-014    | TELEPHONE SOLICITOR                  | 0      | 163          | 249          | 5.71           |
| 299.367-010    | CUSTOMER-SERVICE CLERK               | 0      | 0            | 0            | 7.07           |

## DEMAND REPORT

| [STATEWIDE]                         |             | MONTANA DEPARTMENT OF LABOR AND INDUSTRY |                |                       |                     |                   |
|-------------------------------------|-------------|--|----------------|-----------------------|---------------------|-------------------|
| OCCUPATION -<br>TITLE               | OES<br>CODE | 1986<br>EMPLOY                           | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
| PERSONNEL, TRAINING, LABOR REL. MGR | 13005       | 205                                      | 227            | 2                     | 5                   | 7                 |
| CLAIMS TAKERS, UNEMPLOY. BENEFITS   | 21502       | 102                                      | 96             | -1                    | 2                   | 1                 |
| EMPLOYMENT INTERVIEWERS             | 21508       | 200                                      | 212            | 1                     | 4                   | 5                 |
| PERSONNEL, TRAIN., LABOR REL. SPEC  | 21511       | 547                                      | 523            | -3                    | 11                  | 8                 |
| COMPLIANCE & ENFORCE. INSPECTORS    | 21911       | 525                                      | 560            | 4                     | 25                  | 29                |
| JUDGES & MAGISTRATES                | 28102       | 215                                      | 233            | 2                     | 37                  | 39                |
| ADJUDICATORS & HEARING OFFICERS     | 28105       | 24                                       | 25             | 0                     | 4                   | 4                 |
| LAWYERS                             | 28108       | 988                                      | 1313           | 36                    | 40                  | 76                |
| LAW CLERKS                          | 28302       | 89                                       | 95             | 1                     | 4                   | 5                 |
| PARALEGAL PERSONNEL                 | 28305       | 161                                      | 263            | 11                    | 10                  | 21                |
| TITLE EXAMINERS & ABSTRACTORS       | 28311       | 140                                      | 159            | 2                     | 7                   | 9                 |
| ALL OTHER LEGAL ASSISTANTS          | 28399       | 183                                      | 197            | 2                     | 9                   | 11                |
| ***TOTALS                           |             | 3379                                     | 3903           | 57                    | 158                 | 215               |

## SUPPLY REPORT

| [STATEWIDE]             |             | SCHOOL YEAR 1988-89 |             |                |      |              |                 |              |                |
|-------------------------|-------------|---------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| - PROGRAM -<br>TITLE    | CIP<br>CODE | PUBLIC<br>SECOND    | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
| HUMAN RESOURCES DEVE    | 06.0601     |                     |             | 22             |      |              |                 |              | 22             |
| PERSONNEL ASSISTING     | 07.0503     |                     |             |                | 4    |              |                 | 3            | 7              |
| LAW                     | 22.0101     |                     |             |                | 2    |              |                 | 4            | 6              |
| PRE-LAW                 | 22.0102     |                     |             | 6              |      |              |                 |              | 6              |
| LEGAL ASSISTING         | 22.0103     |                     |             | 36             | 2    |              |                 | 4            | 42             |
| INTERNATIONAL RELATION  | 45.0901     |                     |             | 1              |      |              |                 |              | 1              |
| POLITICAL SCIENCE & GOV | 45.1001     |                     |             | 87             |      |              |                 |              | 87             |
| ***TOTALS               |             |                     |             | 152            | 8    |              |                 | 11           | 171            |

## ANALYSIS INFORMATION

| [STATEWIDE]    |                     | MONTANA DEPARTMENT OF LABOR AND INDUSTRY |              |              |                |
|----------------|---------------------|--|--------------|--------------|----------------|
| D.O.T.<br>CODE | D.O.T.<br>TITLE     | APPREN                                   | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
| 110.107-010    | LAWYER              | 0  | 52           | 19           | 12.20          |
| 119.267-026    | PARALEGAL ASSISTANT | 0  | 0            | 0            | 8.69           |
| 119.287-010    | TITLE EXAMINER      | 0  | 0            | 0            | 6.99           |
| 166.267-018    | JOB ANALYST         | 0  | 5            | 2            | N.A.           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | OPEN |
|-------------------------|-------------|----------------|----------------|-----------------------|---------------------|------|
| LEGAL SECRETARIES       | 55102       | 669            | 927            | 29                    | 20                  | 49   |
| MEDICAL SECRETARIES     | 55105       | 466            | 590            | 14                    | 13                  | 27   |
| GENERAL SECRETARIES     | 55199       | 6567           | 7470           | 100                   | 178                 | 278  |
| ***TOTALS               |             | 7702           | 8987           | 143                   | 211                 | 354  |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| SECRETARIAL & RELATED | 07.0601     | 618              |             | 43             |      |              | 9               |              | 670            |
| EXECUTIVE SECRETARIAL | 07.0603     |                  | 3           |                | 11   |              |                 | 3            | 17             |
| LEGAL SECRETARIAL     | 07.0604     |                  | 51          | 3              | 7    |              | 5               |              | 66             |
| MEDICAL SECRETARIAL   | 07.0605     |                  | 27          | 3              |      |              | 4               |              | 34             |
| SECRETARIAL           | 07.0606     |                  | 3           | 1              | 30   | 2            | 15              | 8            | 59             |
| SECRETARIAL & RELATED | 07.0699     |                  | 9           |                |      | 1            |                 |              | 10             |
| MEDICAL ASSISTING     | 17.0503     |                  |             |                | 2    |              |                 | 1            | 3              |
| ***TOTALS             |             | 618              | 93          | 50             | 50   | 3            | 33              | 12           | 859            |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE          | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--------------------------|--------|--------------|--------------|----------------|
| 169.167-010    | ADMINISTRATIVE ASSISTANT | 0      | 337          | 121          | 11.56          |
| 169.167-014    | ADMINISTRATIVE SECRETARY | 0      | 0            | 0            | 9.45           |
| 201.362-010    | LEGAL SECRETARY          | 0      | 210          | 147          | 7.00           |
| 201.362-014    | MEDICAL SECRETARY        | 0      | 82           | 30           | 6.78           |
| 201.362-030    | SECRETARY                | 0      | 1144         | 450          | 6.50           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE            | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL 1986-1995 |        |      |
|------------------------------------|-------------|----------------|----------------|-----------------------|--------|------|
|                                    |             |                |                | GROWTH                | REPLAC | OPEN |
| ADMINISTRATIVE SERVICES MANAGER    | 13014       | 390            | 432            | 5                     | 15     | 20   |
| POSTMASTERS, MAIL SUPERINTENDENT   | 15002       | 365            | 397            | 4                     | 26     | 30   |
| EDUCATION ADMINISTRATORS           | 15005       | 994            | 1174           | 20                    | 37     | 57   |
| MEDICINE & HEALTH SERV. MGRS       | 15008       | 422            | 513            | 10                    | 17     | 27   |
| INDUSTRIAL PRODUCTION MANAGERS     | 15014       | 207            | 217            | 1                     | 8      | 9    |
| CONSTRUCTION MANAGERS              | 15017       | 503            | 613            | 12                    | 21     | 33   |
| MINING & RELATED MANAGERS          | 15021       | 134            | 144            | 1                     | 5      | 6    |
| COMMUNICATION, TRANSP., UTIL. MGRS | 15023       | 649            | 718            | 8                     | 25     | 33   |
| FOOD SERVICE & LODGING MANAGERS    | 15026       | 1211           | 1365           | 17                    | 48     | 65   |
| PUBLIC ADMIN., LEG., GEN. ADMIN.   | 19002       | 779            | 858            | 9                     | 48     | 57   |
| GENERAL MANAGERS & TOP EXEC.       | 19005       | 5745           | 6410           | 74                    | 226    | 300  |
| ALL OTHER MANAGERS & ADMINIST.     | 19999       | 960            | 1099           | 15                    | 38     | 53   |
| BUDGET ANALYSTS                    | 21117       | 88             | 94             | 1                     | 2      | 3    |
| COST ESTIMATORS                    | 21902       | 284            | 335            | 6                     | 1      | 7    |
| MANAGEMENT ANALYSTS                | 21905       | 95             | 107            | 1                     | 3      | 4    |
| ALL OTHER MANAGEMENT SUPPORT OCC   | 21999       | 695            | 816            | 13                    | 4      | 17   |
| ALL OTHER PROF., PARAPROF., TECHN. | 39999       | 1615           | 1769           | 17                    | 31     | 48   |
| ALL OTHER FIRST LINE SUPERVISORS   | 81099       | 377            | 429            | 6                     | 14     | 20   |
| ***TOTALS                          |             | 15513          | 17490          | 220                   | 569    | 789  |

# SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE    | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| BUSINESS & MANAGEMEN    | 06.0101     |                  |             | 215            |      |              |                 |              | 215            |
| BUSINESS ADMINISTRATIO  | 06.0401     |                  |             | 327            |      |              |                 |              | 327            |
| CONTRACT MANAGEMENT     | 06.0402     |                  |             | 20             |      |              |                 |              | 20             |
| BUSINESS ADMINISTRATIO  | 06.0499     |                  |             | 1              |      |              |                 |              | 1              |
| BUSINESS ECONOMICS      | 06.0501     |                  |             | 5              |      |              |                 |              | 5              |
| HOTEL/MOTEL MANAGEME    | 06.0701     |                  |             | 3              |      |              |                 |              | 3              |
| RECREATIONAL ENTERPRI   | 06.0702     |                  |             |                | 1    |              |                 |              | 1              |
| RESTAURANT MANAGEME     | 06.0704     |                  |             |                | 1    |              |                 |              | 1              |
| TRANSPORTATION MANAG    | 06.0705     |                  |             |                | 2    |              |                 |              | 2              |
| MANAGEMENT SCIENCE, G   | 06.1303     |                  |             |                |      |              |                 | 1            | 1              |
| MARKETING MANAGEMENT    | 06.1401     |                  |             | 75             |      |              |                 |              | 75             |
| TRADE & INDUSTRIAL SUP  | 06.2001     |                  |             |                | 3    |              |                 |              | 3              |
| OFFICE SUPERVISION & M  | 07.0401     |                  |             |                | 5    |              |                 | 3            | 8              |
| ADVERTISING             | 09.0201     |                  |             |                | 1    |              |                 | 1            | 2              |
| INDUSTRIAL TECHNOLOGY   | 15.0603     |                  |             | 4              | 2    |              |                 | 2            | 8              |
| MEDICAL RECORDS ADMIN   | 18.0703     |                  |             | 5              |      |              |                 |              | 5              |
| WEDDING/SPECIALTY CON   | 20.0308     |                  |             |                | 1    |              |                 |              | 1              |
| PUBLIC AFFAIRS, GENERAL | 44.0101     |                  |             | 4              |      |              |                 |              | 4              |
| COMMUNITY SERVICES      | 44.0201     |                  |             |                | 1    |              |                 |              | 1              |
| PUBLIC ADMINISTRATION   | 44.0401     |                  |             | 9              |      |              |                 |              | 9              |
| PUBLIC AFFAIRS, OTHER   | 44.9999     |                  |             | 1              |      |              |                 |              | 1              |
| ***TOTALS               |             |                  |             | 669            | 17   |              |                 | 7            | 693            |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                        | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--|--------|--------------|--------------|----------------|
| 160.267-018    | ESTIMATOR                              | 0      | 30           | 20           | 5.99           |
| 161.167-010    | MANAGEMENT ANALYST                     | 0      | 0            | 0            | 15.31          |
| 165.067-010    | PUBLIC-RELATIONS REPRESENTATIVE        | 0      | 52           | 14           | 11.43          |
| 166.167-030    | MANAGER, EMPLOYMENT                    | 0      | 0            | 0            | 10.75          |
| 168.167-054    | MANAGER, CREDIT AND COLLECTION         | 0      | 0            | 0            | 11.37          |
| 169.167-030    | MANAGER, ELECTRONIC DATA PROCESSING    | 0      | 0            | 0            | 15.50          |
| 169.167-034    | MANAGER, OFFICE                        | 0      | 562          | 67           | 10.45          |
| 183.167-018    | GENERAL SUPERVISOR                     | 0      | 0            | 0            | 14.48          |
| 184.167-094    | MANAGER, TRAFFIC                       | 0      | 0            | 0            | 11.10          |
| 184.167-114    | MANAGER, WAREHOUSE                     | 0      | 0            | 0            | 12.32          |
| 185.137-010    | MANAGER, FAST FOOD SERVICES            | 0      | 0            | 0            | 7.40           |
| 185.167-014    | MANAGER, AUTOMOBILE SERVICE STATION    | 0      | 40           | 0            | 8.46           |
| 186.117-014    | CONTROLLER                             | 0      | 0            | 0            | 17.13          |
| 186.117-038    | MANAGER, FINANCIAL INSTITUTION         | 0      | 0            | 0            | 16.10          |
| 187.117-010    | ADMINISTRATOR, HOSPITAL                | 0      | 0            | 0            | 20.92          |
| 187.117-018    | DIRECTOR, INSTITUTION                  | 0      | 0            | 0            | 10.67          |
| 187.117-026    | EXECUTIVE DIRECTOR, SHELTERED WORKSHOP | 0      | 0            | 0            | 10.64          |
| 187.117-042    | MANAGER, RECREATION ESTABLISHMENT      | 0      | 0            | 0            | 7.45           |
| 187.167-058    | MANAGER, BARBER OR BEAUTY SHOP         | 0      | 5            | 0            | N.A.           |
| 187.167-082    | MANAGER, CUSTOMER SERVICES             | 0      | 0            | 0            | 8.46           |
| 187.167-106    | MANAGER, FOOD SERVICE                  | 0      | 373          | 33           | 6.29           |
| 187.167-142    | MANAGER, SERVICE DEPARTMENT            | 0      | 0            | 0            | 9.93           |
| 188.137-010    | SUPERVISOR                             | 0      | 46           | 36           | N.A.           |
| 189.117-014    | DIRECTOR, RESEARCH AND DEVELOPMENT     | 0      | 0            | 0            | 6.05           |
| 189.117-022    | MANAGER, INDUSTRIAL ORGANIZATION       | 0      | 18           | 1            | 17.15          |
| 189.117-026    | PRESIDENT                              | 0      | 0            | 0            | 21.41          |
| 189.117-034    | VICE PRESIDENT                         | 0      | 0            | 0            | 19.88          |
| 189.167-030    | PROGRAM MANAGER                        | 0      | 0            | 0            | 8.18           |
| 319.137-010    | FOOD-SERVICE SUPERVISOR                | 0      | 12           | 9            | 6.96           |
| 320.137-014    | MANAGER, LODGING FACILITIES            | 0      | 0            | 0            | 7.26           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| TYPISTS, WORD PROCESSING EQUIP.  | 55311       | 554            | 655            | 11                    | 20                  | 31           |
| COMPUTER OPERATORS, EXC. PERIPH. | 56011       | 720            | 885            | 18                    | 6                   | 24           |
| PERIPHERAL EDP EQUIP. OPERATORS  | 56014       | 110            | 131            | 2                     | 1                   | 3            |
| DATA ENTRY KEYERS, EX. COMPOSING | 56017       | 625            | 548            | -9                    | 2                   | -7           |
| DATA ENTRY KEYERS, COMPOSING     | 56021       | 40             | 48             | 1                     | 0                   | 1            |
| ***TOTALS                        |             | 2049           | 2267           | 23                    | 29                  | 52           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| BUSINESS COMPUTER & C  | 07.0302     |                  | 37          | 1              | 2    |              | 119             | 7            | 166            |
| BUSINESS DATA ENTRY EQ | 07.0303     |                  | 20          |                | 6    |              |                 | 2            | 28             |
| BUSINESS DATA PERIPHER | 07.0304     |                  |             |                |      |              |                 | 1            | 1              |
| WORD PROCESSING        | 07.0801     |                  | 38          | 23             | 9    |              | 116             |              | 186            |
| ***TOTALS              |             |                  | 95          | 24             | 17   |              | 235             | 10           | 381            |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                  | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|----------------------------------|--------|--------------|--------------|----------------|
| 203.362-022    | WORD-PROCESSING-MACHINE OPERATOR | 0      | 0            | 0            | 6.58           |
| 203.582-026    | DATA-CODER OPERATOR              | 0      | 0            | 0            | 6.01           |
| 203.582-030    | KEYPUNCH OPERATOR                | 0      | 38           | 36           | 5.78           |
| 203.582-054    | TERMINAL OPERATOR                | 0      | 0            | 0            | 6.12           |
| 205.137-010    | ADMITTING OFFICER                | 0      | 0            | 0            | 6.12           |
| 213.362-010    | COMPUTER OPERATOR                | 0      | 275          | 68           | 7.09           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE        | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | OPEN |
|--------------------------------|-------------|----------------|----------------|-----------------------|---------------------|------|
| COMPUTER SYSTEMS ANALYSTS, EDP | 25102       | 281            | 372            | 10                    | 2                   | 12   |
| COMPUTER PROGRAMMERS & AIDES   | 25104       | 668            | 890            | 25                    | 27                  | 52   |
| PROGRAMMERS: NUMERICAL, TOOL   | 25111       | 3              | 2              | 0                     | 0                   | 0    |
| OPERATIONS & SYSTEMS ANALYSTS  | 25302       | 22             | 26             | 0                     | 0                   | 0    |
| ***TOTALS                      |             | 974            | 1290           | 35                    | 29                  | 64   |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| MANAGEMENT INFORMATI  | 06.1201     |                  |             | 31             |      |              |                 |              | 31             |
| BUSINESS DATA PROCESS | 07.0301     |                  | 14          | 7              |      |              |                 |              | 21             |
| BUSINESS DATA PROGRAM | 07.0305     |                  | 7           | 5              |      |              |                 |              | 12             |
| COMPUTER & INFORMATIO | 11.0101     |                  |             | 96             |      |              |                 |              | 96             |
| COMPUTER PROGRAMMIN   | 11.0201     |                  |             | 4              |      |              |                 |              | 4              |
| DATA PROCESSING       | 11.0301     |                  |             | 4              |      |              |                 |              | 4              |
| INFORMATION SCIENCES  | 11.0401     |                  |             | 7              |      |              |                 |              | 7              |
| MICROCOMPUTER APPLICA | 11.0601     |                  |             | 9              | 3    |              |                 | 1            | 13             |
| COMPUTER TECHNOLOGY   | 15.0301     |                  |             | 4              |      |              |                 |              | 4              |
| MATHEMATICS & COMPUT  | 30.0801     |                  |             |                |      |              |                 | 1            | 1              |
| ***TOTALS             |             |                  | 21          | 167            | 3    |              |                 | 2            | 193            |

## ANALYSIS INFORMATION

[STATEWIDE]

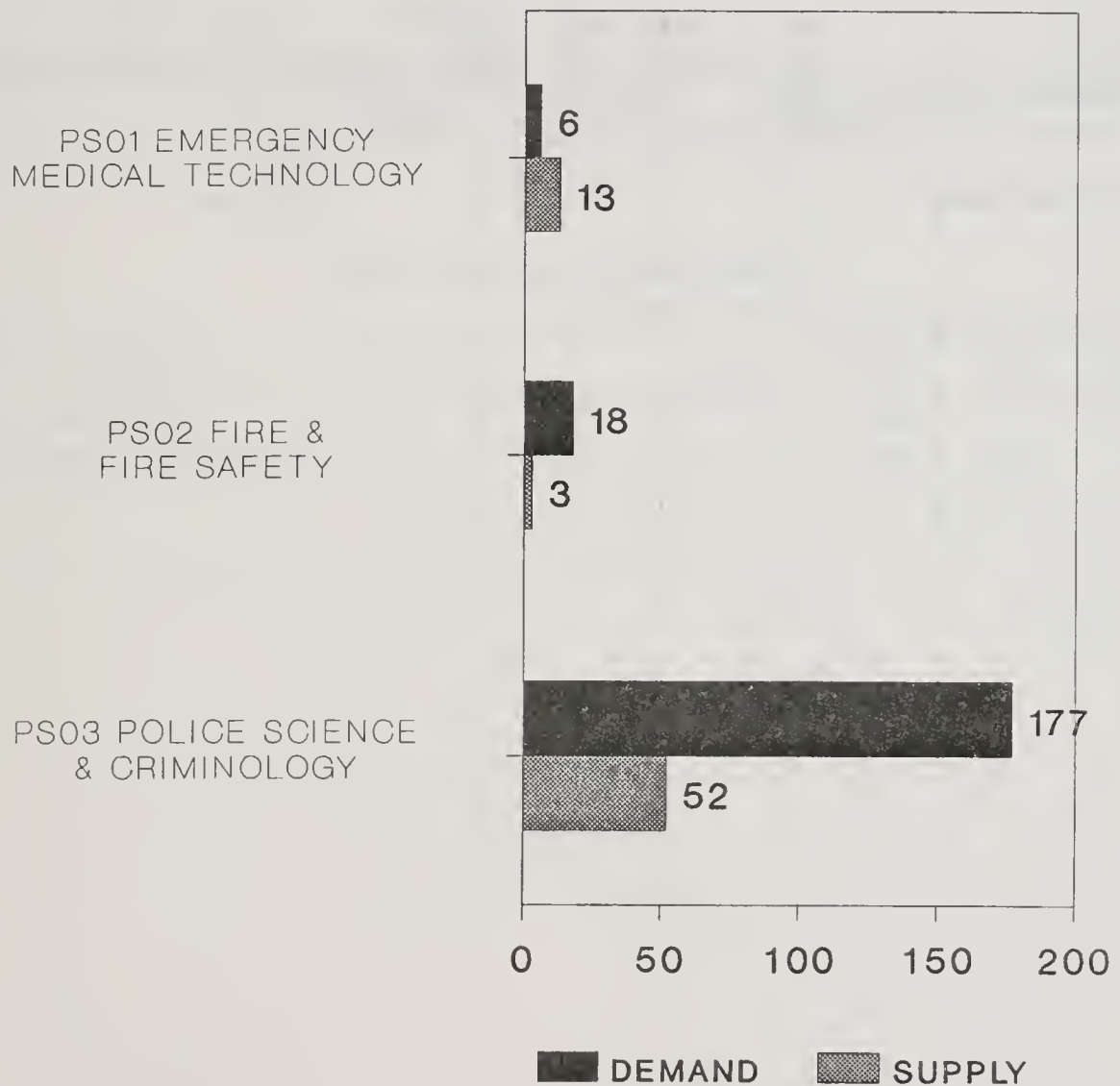
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                        | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--|--------|--------------|--------------|----------------|
| 012.167-066    | SYSTEMS ANALYST, ELECTRONIC DATA PROCE | 0      | 60           | 32           | 12.69          |
| 020.062-010    | COMPUTER-APPLICATIONS ENGINEER         | 0      | 0            | 0            | 18.95          |
| 020.162-014    | PROGRAMMER, BUSINESS                   | 0      | 41           | 20           | N.A.           |
| 020.187-010    | PROGRAMMER, INFORMATION SYSTEM         | 0      | 0            | 0            | 11.07          |
| 020.187-014    | PROGRAMMER, PROCESS CONTROL            | 0      | 0            | 0            | 10.70          |
| 219.367-026    | PROGRAMMER, DETAIL                     | 0      | 2            | 0            | N.A.           |

# PROTECTIVE SERVICE CLUSTERS

## DEMAND VS. SUPPLY

ESTIMATED ANNUAL OPENINGS VS. TRAINING COMPLETERS



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE       | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| EMERGENCY MEDICAL TECHNICIANS | 32508       | 255            | 287            | 4                     | 2                   | 6            |
| ***TOTALS                     |             | 255            | 287            | 4                     | 2                   | 6            |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| EMERGENCY MEDICAL TEC | 17.0206     |                  | 13          |                |      |              |                 |              | 13             |
| ***TOTALS             |             |                  | 13          |                |      |              |                 |              | 13             |

NO ANALYSIS REPORT

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| FIRE FIGHTING & PREV.SUPERVISORS | 61002       | 117            | 134            | 2                     | 2                   | 4            |
| FIRE INSPECTORS                  | 63001       | 13             | 14             | 0                     | 0                   | 0            |
| FIRE FIGHTERS                    | 63008       | 526            | 600            | 8                     | 6                   | 14           |
| ***TOTALS                        |             | 656            | 748            | 10                    | 8                   | 18           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| FIREFIGHTING         | 43.0203     |                  |             |                |      | 3            |                 |              | 3              |
| ***TOTALS            |             |                  |             |                |      | 3            |                 |              | 3              |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE     | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------|--------|--------------|--------------|----------------|
| 373.364-010    | FIRE FIGHTER        | 3      | 160          | 21           | N.A.           |
| 452.687-014    | FOREST-FIRE FIGHTER | 0      | 298          | 1003         | N.A.           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| OCCUPATION -<br>TITLE            | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| DISPATCHER:POLICE,FIRE,AMBULANCE | 58002       | 446            | 491            | 5                     | 7                   | 12           |
| POLICE & DETECTIVE SUPERVISORS   | 61005       | 210            | 231            | 2                     | 2                   | 4            |
| POLICE DETECTIVES                | 63011       | 98             | 106            | 1                     | 1                   | 2            |
| POLICE PATROL OFFICERS           | 63014       | 920            | 1021           | 11                    | 12                  | 23           |
| CORRECTION OFFICERS & JAILERS    | 63017       | 371            | 458            | 10                    | 12                  | 22           |
| PARKING ENFORCEMENT OFFICERS     | 63021       | 51             | 62             | 1                     | 2                   | 3            |
| BAILIFFS                         | 63023       | 27             | 29             | 0                     | 1                   | 1            |
| U.S. MARSHALLS                   | 63026       | 2              | 2              | 0                     | 0                   | 0            |
| CRIMINAL INVESTIGATORS, FEDERAL  | 63028       | 41             | 44             | 0                     | 1                   | 1            |
| SHERIFFS, DEPUTIES, US MARSHALLS | 63031       | 683            | 709            | 3                     | 24                  | 27           |
| PRIVATE DETECTIVE & INVESTIGATOR | 63035       | 80             | 91             | 1                     | 6                   | 7            |
| RAILROAD POLICE & SPECIAL AGENTS | 63038       | 10             | 9              | 0                     | 1                   | 1            |
| CROSSING GUARDS                  | 63044       | 106            | 127            | 2                     | 6                   | 8            |
| GUARDS & WATCH GUARDS            | 63047       | 670            | 746            | 8                     | 52                  | 60           |
| ALL OTHER PROTECTIVE SERVICE     | 63099       | 385            | 433            | 5                     | 1                   | 6            |
| ***TOTALS                        |             | 4100           | 4559           | 49                    | 128                 | 177          |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| PROGRAM -<br>TITLE      | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| CRIMINAL JUSTICE STUDIE | 43.0104     |                  |             | 20             |      |              |                 |              | 20             |
| LAW ENFORCEMENT         | 43.0107     |                  |             | 16             | 2    |              |                 | 2            | 20             |
| SECURITY SERVICES       | 43.0109     |                  |             |                | 10   |              |                 | 2            | 12             |
| ***TOTALS               |             |                  |             | 36             | 12   |              |                 | 4            | 52             |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

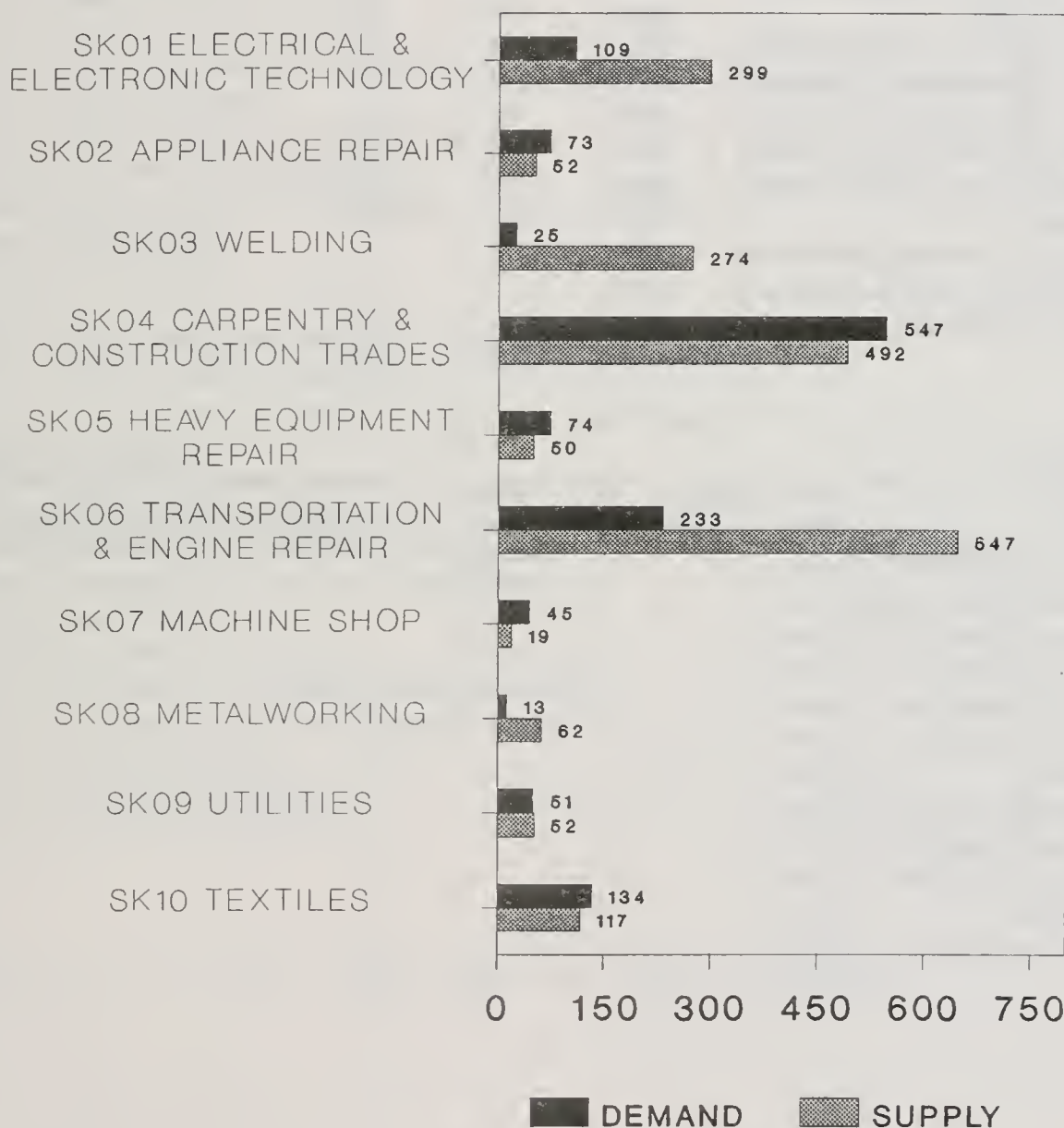
| D.O.T.<br>CODE | D.O.T.<br>TITLE             | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-----------------------------|--------|--------------|--------------|----------------|
| 189.167-034    | SECURITY OFFICER            | 0      | 28           | 0            | N.A.           |
| 372.667-018    | CORRECTION OFFICER          | 0      | 50           | 38           | N.A.           |
| 372.667-034    | GUARD, SECURITY             | 0      | 152          | 96           | 5.77           |
| 372.667-038    | MERCHANT PATROLLER          | 0      | 278          | 165          | N.A.           |
| 375.263-014    | POLICE OFFICER 1            | 0      | 115          | 22           | N.A.           |
| 375.587-010    | PARKING ENFORCEMENT OFFICER | 0      | 6            | 1            | N.A.           |



# SKILLS CLUSTERS

## DEMAND VS. SUPPLY

ESTIMATED ANNUAL OPENINGS VS. TRAINING COMPLETERS



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE             | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-------------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| ELECTRICAL & ELECTRONIC ENGINEER    | 22126       | 261            | 345            | 9                     | 5                   | 14           |
| ELECTRICAL & ELECTRONIC TECHNS.     | 22505       | 382            | 456            | 8                     | 8                   | 16           |
| RADIO MECHANICS                     | 85514       | 54             | 62             | 1                     | 1                   | 2            |
| DATA PROCESSING EQUIP. REPAIRERS    | 85705       | 27             | 37             | 1                     | 0                   | 1            |
| ELECTRONICS REPAIRERS, COMM. & IND. | 85717       | 84             | 92             | 1                     | 1                   | 2            |
| ELECTRICAL INSTALLERS & REPAIRER    | 85728       | 81             | 83             | 0                     | 2                   | 2            |
| ALL OTHER ELECTRIC., ELECTRO. MECH  | 85799       | 156            | 179            | 3                     | 5                   | 8            |
| ELECTROMEDICAL & BIOMED. REPAIR.    | 85908       | 26             | 32             | 1                     | 4                   | 5            |
| ELECTRICIANS                        | 87202       | 1011           | 1143           | 15                    | 36                  | 51           |
| ELECTRICAL, ELECTRONIC ASSEMBLER    | 93114       | 53             | 76             | 3                     | 0                   | 3            |
| ELECTRICAL, ELECTRONIC ASSEMBLER    | 93905       | 9              | 14             | 1                     | 1                   | 2            |
| HELPERS, ELECTRICIANS               | 98313       | 82             | 97             | 2                     | 1                   | 3            |
| ***TOTALS                           |             | 2226           | 2616           | 45                    | 64                  | 109          |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| ELECTRICAL, ELECTRONIC | 14.1001     |                  |             | 123            |      |              |                 |              | 123            |
| MICROELECTRONIC ENGIN  | 14.1002     |                  |             |                |      |              |                 | 2            | 2              |
| ELECTRICAL TECHNOLOGY  | 15.0302     |                  |             | 14             |      |              |                 | 5            | 19             |
| ELECTRONIC TECHNOLOG   | 15.0303     |                  | 16          | 12             |      |              |                 |              | 28             |
| ROBOTICS TECHNOLOGY    | 15.0405     |                  |             |                | 1    |              |                 | 3            | 4              |
| ELECTRICITY/ELECTRONI  | 21.0104     | 58               |             |                |      |              |                 |              | 58             |
| ELECTRICIAN            | 46.0302     |                  |             |                | 12   | 3            |                 | 1            | 16             |
| ELECTRICAL/ELECTRONIC  | 47.0101     | 2                | 10          |                |      |              |                 |              | 12             |
| BUSINESS MACHINE REPA  | 47.0102     |                  |             |                | 6    |              |                 |              | 6              |
| INDUSTRIAL ELECTRONIC  | 47.0105     |                  | 18          |                | 8    |              |                 | 3            | 29             |
| MOTOR REPAIR           | 47.0107     |                  |             |                | 1    |              |                 |              | 1              |
| VENDING & RECREATIONA  | 47.0109     |                  |             |                | 1    |              |                 |              | 1              |
| ***TOTALS              |             | 60               | 44          | 149            | 29   | 3            |                 | 14           | 299            |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                        | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--|--------|--------------|--------------|----------------|
| 003.061-010    | ELECTRICAL ENGINEER                    | 0      | 51           | 4            | 15.30          |
| 003.061-014    | ELECTRICAL TEST ENGINEER               | 0      | 1            | 0            | N.A.           |
| 003.161-014    | ELECTRONICS TECHNICIAN                 | 0      | 113          | 21           | 11.91          |
| 003.281-010    | DRAFTER, ELECTRICAL                    | 0      | 6            | 3            | N.A.           |
| 003.281-014    | DRAFTER, ELECTRONIC                    | 0      | 0            | 0            | 9.36           |
| 633.281-018    | OFFICE-MACHINE SERVICER                | 1      | 23           | 20           | 7.03           |
| 638.261-022    | PINSETTER MECHANIC, AUTOMATIC          | 0      | 22           | 2            | 5.40           |
| 720.281-010    | RADIO REPAIRER                         | 0      | 2            | 2            | N.A.           |
| 720.281-018    | TELEVISION-AND-RADIO REPAIRER          | 0      | 9            | 6            | 6.72           |
| 721.281-018    | ELECTRIC-MOTOR REPAIRER                | 0      | 4            | 1            | N.A.           |
| 721.684-022    | ELECTRIC-MOTOR ASSEMBLER               | 0      | 6            | 0            | N.A.           |
| 723.684-014    | ASSEMBLER 1                            | 0      | 1            | 0            | N.A.           |
| 724.684-026    | COIL WINDER                            | 0      | 2            | 0            | N.A.           |
| 726.130-010    | SUPERVISOR, ELECTRONICS                | 0      | 1            | 0            | N.A.           |
| 726.261-010    | ELECTRONICS ASSEMBLER, DEVELOPMENTAL   | 0      | 4            | 0            | N.A.           |
| 726.381-010    | ELECTRONICS INSPECTOR 1                | 0      | 7            | 1            | N.A.           |
| 726.384-010    | ELECTRONICS ASSEMBLER                  | 0      | 0            | 2            | N.A.           |
| 726.684-010    | CAPACITOR-PACK-PRESS OPERATOR          | 0      | 1            | 0            | N.A.           |
| 726.684-018    | ELECTRONICS ASSEMBLER                  | 0      | 60           | 23           | N.A.           |
| 726.684-022    | ELECTRONICS INSPECTOR 2                | 0      | 3            | 0            | N.A.           |
| 729.384-010    | ASSEMBLER, ELECTRICAL ACCESSORIES 2    | 0      | 1            | 0            | N.A.           |
| 729.687-010    | ASSEMBLER, ELECTRICAL ACCESSORIES 1    | 0      | 7            | 0            | N.A.           |
| 824.261-010    | ELECTRICIAN                            | 1      | 321          | 21           | 12.54          |
| 825.281-018    | ELECTRICIAN, AIRPLANE                  | 0      | 4            | 0            | N.A.           |
| 826.361-010    | ASSEMBLER AND WIRER, INDUSTRIAL EQUIPM | 0      | 1            | 3            | N.A.           |
| 828.251-010    | ELECTRONIC-SALES-AND-SERVICE TECHNICIA | 0      | 0            | 0            | 7.57           |
| 828.261-014    | FIELD ENGINEER                         | 0      | 0            | 0            | 11.18          |
| 828.281-010    | ELECTRONICS MECHANIC                   | 0      | 158          | 9            | 13.34          |
| 829.281-014    | ELECTRICAL REPAIRER                    | 0      | 18           | 0            | 14.99          |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE           | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| HOME ENTERTAINMENT EQ. REPAIRERS  | 85708       | 115            | 145            | 3                     | 5                   | 8            |
| ELECTR. HOME APPL. & POWER TOOL   | 85711       | 166            | 201            | 4                     | 8                   | 12           |
| ELECTRIC MOTOR REPAIRERS          | 85714       | 27             | 36             | 1                     | 1                   | 2            |
| HEATING, A/C, REFRIG. MECHANICS   | 85902       | 374            | 440            | 7                     | 30                  | 37           |
| CAMERA & PHOTOGRAPHIC REPAIRERS   | 85914       | 2              | 2              | 0                     | 0                   | 0            |
| OFFICE MACHINE, REGISTER SERVICER | 85926       | 184            | 195            | 1                     | 1                   | 2            |
| GAS APPLIANCE REPAIRERS           | 85944       | 130            | 146            | 2                     | 6                   | 8            |
| COIN & VENDING MACHINE SERVICERS  | 85947       | 68             | 79             | 1                     | 3                   | 4            |
| ***TOTALS                         |             | 1066           | 1244           | 19                    | 54                  | 73           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| COMMUNICATION ELECTR  | 47.0103     |                  |             |                | 4    |              |                 |              | 4              |
| MAJOR APPLIANCE REPAI | 47.0106     |                  | 21          |                | 6    |              |                 | 3            | 30             |
| SMALL APPLIANCE REPAI | 47.0108     |                  |             |                | 1    |              |                 |              | 1              |
| HEATING/AIR CONDITION | 47.0201     |                  | 13          |                |      |              |                 |              | 13             |
| COOLING & REFRIGERATI | 47.0202     |                  |             |                | 3    |              |                 | 1            | 4              |
| ***TOTALS             |             |                  | 34          |                | 14   |              |                 | 5            | 70             |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                        | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--|--------|--------------|--------------|----------------|
| 633.281-010    | CASH-REGISTER SERVICER                 | 0      | 3            | 0            | N.A.           |
| 637.261-014    | ENVIRONMENTAL-CONTROL-SYSTEM INSTALLER | 1      | 29           | 7            | 13.01          |
| 637.261-018    | GAS-APPLIANCE SERVICER                 | 0      | 16           | 3            | N.A.           |
| 637.261-026    | REFRIGERATION MECHANIC                 | 0      | 19           | 3            | 10.20          |
| 637.664-010    | ENVIRONMENTAL-CONTROL-SYSTEM INSTALLER | 0      | 4            | 1            | N.A.           |
| 639.281-014    | COIN-MACHINE-SERVICE REPAIRER          | 0      | 9            | 1            | N.A.           |
| 639.281-018    | SEWING-MACHINE REPAIRER                | 0      | 3            | 4            | N.A.           |
| 822.281-018    | MAINTENANCE MECHANIC, TELEPHONE        | 0      | 6            | 1            | N.A.           |
| 823.261-018    | RADIO MECHANIC                         | 0      | 6            | 2            | N.A.           |
| 827.261-010    | ELECTRICAL-APPLIANCE SERVICER          | 0      | 0            | 0            | 6.48           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE         | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | OPEN |
|---------------------------------|-------------|----------------|----------------|-----------------------|---------------------|------|
| WELDING MACHINE SETTER/OPERATOR | 91702       | 18             | 22             | 0                     | 0                   | 0    |
| WELDING MACHINE OPERATORS       | 91705       | 3              | 2              | 0                     | 0                   | 0    |
| WELDERS & CUTTERS               | 93914       | 712            | 832            | 13                    | 12                  | 25   |
| ***TOTALS                       |             | 733            | 856            | 13                    | 12                  | 25   |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| WELDING TECHNOLOGY   | 15.0610     | *                | *           | *              | *    | *            | *               | 1            | 1              |
| WELDING              | 48.0508     | 203              | 23          | *              | 6    | 40           | *               | 1            | 273            |
| ***TOTALS            |             | 203              | 23          | *              | 6    | 40           | *               | 2            | 274            |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE     | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------|--------|--------------|--------------|----------------|
| 810.384-014    | WELDER, ARC         | 0      | 0            | 0            | 9.40           |
| 811.684-014    | WELDER, GAS         | 0      | 8            | 0            | 7.70           |
| 819.131-014    | WELDING SUPERVISOR  | 0      | 0            | 0            | 13.70          |
| 819.384-010    | WELDER, COMBINATION | 0      | 539          | 105          | 11.32          |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL 1986-1995 |        |      |
|----------------------------------|-------------|----------------|----------------|-----------------------|--------|------|
|                                  |             |                |                | GROWTH                | REPLAC | OPEN |
| ALL OTHER MATERIAL WORKERS       | 58099       | 141            | 151            | 1                     | 4      | 5    |
| FIRST LINE SUPERV.:CONST.EXTRAC. | 81005       | 795            | 876            | 9                     | 26     | 35   |
| FIRST LINE SUPERV.:HELP,LABORERS | 81017       | 199            | 226            | 3                     | 49     | 52   |
| CEILING TILE INSTALLERS          | 87105       | 18             | 21             | 0                     | 0      | 0    |
| DRYWALL INSTALLERS               | 87108       | 60             | 73             | 1                     | 1      | 2    |
| CARPENTERS                       | 87110       | 2166           | 2723           | 62                    | 85     | 147  |
| TAPERS                           | 87111       | 40             | 49             | 1                     | 1      | 2    |
| BRICK MASONS                     | 87302       | 94             | 106            | 1                     | 3      | 4    |
| STONE MASONS                     | 87305       | 28             | 36             | 1                     | 1      | 2    |
| HARD TILE SETTERS                | 87308       | 4              | 5              | 0                     | 0      | 0    |
| CONCRETE & TERRAZZO FINISHERS    | 87311       | 325            | 392            | 7                     | 2      | 9    |
| PLASTERERS & STUCCO MASONS       | 87317       | 43             | 49             | 1                     | 9      | 10   |
| PAINTERS & PAPERHANGERS          | 87402       | 273            | 317            | 5                     | 7      | 12   |
| PLUMBER, PIPEFITTER, STEAMFITTER | 87502       | 715            | 828            | 13                    | 26     | 39   |
| PIPELAYING FITTERS               | 87505       | 63             | 70             | 1                     | 1      | 2    |
| PIPELAYERS                       | 87508       | 102            | 122            | 2                     | 2      | 4    |
| CARPET INSTALLERS                | 87602       | 48             | 63             | 2                     | 1      | 3    |
| FLOOR LAYERS,EX.CARPET,WOOD,TILE | 87605       | 4              | 5              | 0                     | 0      | 0    |
| INSULATION WORKERS               | 87802       | 91             | 109            | 2                     | 2      | 4    |
| ROOFERS                          | 87808       | 142            | 178            | 4                     | 8      | 12   |
| GLAZIERS                         | 87811       | 142            | 155            | 1                     | 4      | 5    |
| FENCE ERECTORS                   | 87817       | 93             | 101            | 1                     | 2      | 3    |
| ALL OTHER CONSTRUCTION WORKERS   | 87899       | 217            | 220            | 0                     | 4      | 4    |
| CABINETMAKERS & BENCH CARPENTERS | 89311       | 250            | 299            | 5                     | 7      | 12   |
| FURNITURE FINISHERS              | 89314       | 23             | 27             | 0                     | 1      | 1    |
| WOODWORKING MACHINE SETTER/OPER. | 92311       | 237            | 249            | 1                     | 3      | 4    |
| WOODWORKING MACHINE OPERATORS    | 92314       | 163            | 174            | 1                     | 2      | 3    |
| COIL WINDERS, TAPERS, FINISHERS  | 93908       | 3              | 5              | 0                     | 0      | 0    |
| HELPERS, MASONS & TILE SETTERS   | 98311       | 57             | 67             | 1                     | 1      | 2    |
| HELPERS, CARPENTERS              | 98312       | 366            | 459            | 10                    | 4      | 14   |
| HELPERS, PAINTERS, PLASTERERS    | 98314       | 53             | 62             | 1                     | 1      | 2    |
| HELPERS, PLUMBERS, PIPEFITTERS   | 98315       | 76             | 90             | 2                     | 1      | 3    |
| HELPERS, ROOFERS                 | 98316       | 14             | 16             | 0                     | 0      | 0    |
| HELPERS, ALL OTHER CONSTRUCTION  | 98319       | 352            | 381            | 3                     | 2      | 5    |
| ALL OTHER HAND MATERIAL MOVERS   | 98799       | 1607           | 1731           | 14                    | 26     | 40   |
| ALL OTHER HELPER, LABORER, MOVER | 98999       | 4093           | 4237           | 16                    | 89     | 105  |
| ***TOTALS                        |             | 13097          | 14672          | 172                   | 375    | 547  |

# SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE    | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| CONSTRUCTION            | 21.0102     | 262              |             |                |      |              |                 |              | 262            |
| BRICKMASONRY, BLOCK,    | 46.0102     |                  |             |                | 1    | 10           |                 | 2            | 13             |
| CARPENTRY               | 46.0201     | 85               | 11          | 11             | 6    | 38           |                 | 2            | 153            |
| CONCRETE PLACING & FIN  | 46.0402     |                  |             |                | 1    | 16           |                 | 1            | 18             |
| CONSTRUCTION INSPECTI   | 46.0403     |                  |             |                |      |              |                 | 1            | 1              |
| GLAZING                 | 46.0406     |                  |             |                | 1    |              |                 |              | 1              |
| INSULATION INSTALLATIO  | 46.0407     |                  |             |                | 3    |              |                 |              | 3              |
| PAINTING & DECORATING   | 46.0408     |                  |             |                | 2    | 15           |                 |              | 17             |
| PLASTERING              | 46.0409     |                  |             |                |      | 1            |                 |              | 1              |
| ROOFING                 | 46.0410     |                  |             |                |      |              |                 | 1            | 1              |
| MISC. CONSTRUCTION TR   | 46.0499     |                  |             | 2              | 3    |              |                 | 1            | 6              |
| PIPEFITTING & STEAMFITT | 46.0502     |                  |             |                | 13   |              |                 | 1            | 14             |
| CONSTRUCTION TRADES     | 46.9999     |                  |             |                | 2    |              |                 |              | 2              |
| ***TOTALS               |             | 347              | 11          | 13             | 32   | 80           |                 | 9            | 492            |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                       | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------------------------|--------|--------------|--------------|----------------|
| 760.684-010    | BENCH CARPENTER                       | 0      | 0            | 0            | 7.13           |
| 840.381-010    | PAINTER                               | 1      | 438          | 135          | 10.76          |
| 842.361-010    | LATHER                                | 0      | 4            | 0            | N.A.           |
| 842.361-018    | PLASTERER                             | 0      | 9            | 0            | N.A.           |
| 842.664-010    | TAPER                                 | 0      | 24           | 7            | N.A.           |
| 844.364-010    | CEMENT MASON                          | 0      | 140          | 20           | N.A.           |
| 860.281-010    | CARPENTER, MAINTENANCE                | 0      | 11           | 5            | 7.92           |
| 860.381-022    | CARPENTER                             | 1      | 1323         | 203          | 9.51           |
| 860.381-026    | CARPENTER APPRENTICE                  | 2      | 0            | 0            | N.A.           |
| 861.381-018    | BRICKLAYER                            | 0      | 55           | 1            | N.A.           |
| 862.381-018    | PIPE FITTER                           | 1      | 137          | 13           | N.A.           |
| 862.381-030    | PLUMBER                               | 18     | 119          | 10           | 12.74          |
| 862.381-034    | PLUMBER APPRENTICE                    | 0      | 21           | 1            | N.A.           |
| 864.381-010    | CARPET LAYER                          | 0      | 58           | 6            | N.A.           |
| 865.381-010    | GLAZIER                               | 0      | 41           | 4            | 11.28          |
| 866.381-010    | ROOFER                                | 2      | 201          | 86           | N.A.           |
| 869.664-014    | CONSTRUCTION WORKER 1                 | 0      | 1437         | 868          | N.A.           |
| 869.684-010    | ASSEMBLER                             | 0      | 6            | 15           | N.A.           |
| 869.687-026    | CONSTRUCTION WORKER 2                 | 0      | 1133         | 634          | N.A.           |
| 869.687-038    | INSPECTOR                             | 0      | 0            | 0            | 8.43           |
| 899.281-014    | MAINTENANCE REPAIRER, FACTORY OR MILL | 0      | 10           | 8            | N.A.           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL 1986-1995 |        |      |
|----------------------------------|-------------|----------------|----------------|-----------------------|--------|------|
|                                  |             |                |                | GROWTH                | REPLAC | OPEN |
| MACHINERY MECHANICS: PLANT       | 85118       | 136            | 154            | 2                     | 5      | 7    |
| ALL OTHER MACHINERY MECHANICS    | 85119       | 414            | 419            | 1                     | 16     | 17   |
| MILLWRIGHTS                      | 85123       | 354            | 383            | 3                     | 7      | 10   |
| MACHINERY MAINTENANCE WORKERS    | 85128       | 201            | 223            | 2                     | 9      | 11   |
| MOBILE HEAVY EQUIPMENT MECHANICS | 85314       | 573            | 665            | 10                    | 18     | 28   |
| SIGNAL OR TRACK SWITCH MAINT.    | 85511       | 95             | 87             | -1                    | 1      | 0    |
| RIGGERS                          | 85935       | 12             | 14             | 0                     | 1      | 1    |
| ***TOTALS                        |             | 1785           | 1945           | 17                    | 57     | 74   |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
|                        |             |                  |             |                |      |              |                 |              |                |
| HEAVY EQUIPMENT MAINT  | 47.0302     | *                | 10          | *              | 5    | 5            | *               | *            | 20             |
| INDUSTRIAL MACHINERY   | 47.0303     | *                | *           | *              | 2    | *            | 15              | 1            | 18             |
| MINE EQUIPMENT MAINT   | 47.0304     | *                | *           | *              | 1    | *            | *               | *            | 1              |
| DIESEL ENGINE MECHANIC | 47.0605     | *                | 5           | *              | 2    | 2            | *               | 2            | 11             |
| ***TOTALS              |             | *                | 15          | *              | 10   | 7            | 15              | 2            | 32             |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                 | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------------------|--------|--------------|--------------|----------------|
|                |                                 |        |              |              |                |
| 620.261-022    | CONSTRUCTION-EQUIPMENT MECHANIC | 0      | 141          | 26           | 12.03          |
| 620.281-046    | MAINTENANCE MECHANIC            | 0      | 16           | 0            | N.A.           |
| 625.281-010    | DIESEL MECHANIC                 | 1      | 264          | 85           | 12.91          |
| 638.261-014    | MACHINERY ERECTOR               | 0      | 2            | 0            | N.A.           |
| 638.281-014    | MAINTENANCE MECHANIC            | 0      | 160          | 89           | 10.93          |
| 638.281-018    | MILLWRIGHT                      | 0      | 111          | 15           | 12.13          |
| 638.281-022    | MILLWRIGHT APPRENTICE           | 1      | 0            | 0            | N.A.           |
| 915.687-018    | LUBRICATION SERVICER            | 0      | 29           | 33           | N.A.           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| FIRST LINE SUPERV.:MECH.& REPAIR | 81002       | 1354           | 1466           | 12                    | 38                  | 50                |
| AUTOMOTIVE MECHANICS             | 85302       | 1729           | 1856           | 14                    | 53                  | 67                |
| AUTOMOTIVE BODY,RELATED REPAIRER | 85305       | 551            | 638            | 10                    | 11                  | 21                |
| MOTORCYCLE REPAIRERS             | 85308       | 50             | 53             | 0                     | 0                   | 0                 |
| BUS, TRUCK, DIESEL ENG. MECHANIC | 85311       | 1036           | 1177           | 16                    | 24                  | 40                |
| RAIL CAR REPAIRERS               | 85317       | 29             | 27             | 0                     | 1                   | 1                 |
| SMALL ENGINE SPECIALISTS         | 85328       | 101            | 117            | 2                     | 0                   | 2                 |
| BICYCLE REPAIRERS                | 85951       | 21             | 23             | 0                     | 1                   | 1                 |
| TIRE REPAIRERS & CHANGERS        | 85953       | 415            | 421            | 1                     | 19                  | 20                |
| PAINTERS, TRANSPORTATION EQUIP.  | 92947       | 31             | 35             | 0                     | 1                   | 1                 |
| SERVICE STATION ATTENDANTS       | 97805       | 943            | 974            | 3                     | 14                  | 17                |
| MECHANIC & REPAIRER HELPERS      | 98102       | 281            | 308            | 3                     | 10                  | 13                |
| ***TOTALS                        |             | 6541           | 7095           | 61                    | 172                 | 233               |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| AUTOMOTIVE TECHNOLOG   | 15.0803     |                  |             | 13             |      |              |                 |              | 13             |
| AUTOMOTIVE BODY REPAI  | 47.0603     | 24               | 26          |                | 8    | 9            |                 | 2            | 69             |
| AUTOMOTIVE MECHANICS   | 47.0604     | 400              | 44          |                | 20   | 18           |                 | 6            | 488            |
| SMALL ENGINE REPAIR    | 47.0606     | 50               | 10          |                | 1    |              |                 | 4            | 65             |
| VEHICLE & MOBILE EQUIP | 47.0699     |                  | 10          |                |      |              |                 |              | 10             |
| MARINE MAINTENANCE     | 49.0306     |                  |             |                | 2    |              |                 |              | 2              |
| ***TOTALS              |             | 474              | 90          | 13             | 31   | 27           |                 | 12           | 647            |

# ANALYSIS INFORMATION

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                       | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------------------------|--------|--------------|--------------|----------------|
| 620.261-010    | AUTOMOBILE MECHANIC                   | 4      | 743          | 254          | 10.49          |
| 620.281-010    | AIR-CONDITIONING MECHANIC             | 0      | 5            | 0            | N.A.           |
| 620.281-054    | MOTORCYCLE REPAIRER                   | 0      | 0            | 0            | 7.06           |
| 620.281-062    | TRANSMISSION MECHANIC                 | 0      | 0            | 0            | 9.00           |
| 620.381-010    | AUTOMOBILE-RADIATOR MECHANIC          | 0      | 0            | 0            | 8.69           |
| 620.381-022    | REPAIRER, HEAVY                       | 0      | 2            | 1            | N.A.           |
| 620.684-014    | AUTOMOBILE-MECHANIC HELPER            | 0      | 0            | 0            | 6.23           |
| 625.281-026    | GAS-ENGINE REPAIRER                   | 0      | 0            | 0            | 6.60           |
| 625.281-034    | SMALL-ENGINE MECHANIC                 | 0      | 62           | 32           | N.A.           |
| 638.261-018    | MANUFACTURER'S SERVICE REPRESENTATIVE | 0      | 0            | 0            | 9.54           |
| 639.681-010    | BICYCLE REPAIRER                      | 0      | 0            | 0            | 3.46           |
| 806.361-026    | NEW-CAR GET-READY MECHANIC            | 0      | 0            | 0            | 5.41           |
| 806.684-038    | AUTOMOBILE-ACCESSORIES INSTALLER      | 0      | 0            | 0            | 5.96           |
| 807.281-010    | TRUCK-BODY BUILDER                    | 0      | 0            | 0            | 8.58           |
| 807.381-010    | AUTOMOBILE-BODY REPAIRER              | 0      | 239          | 49           | 9.54           |
| 845.381-014    | PAINTER, TRANSPORTATION EQUIPMENT     | 0      | 15           | 4            | N.A.           |
| 862.261-010    | PIPE FITTER                           | 0      | 3            | 0            | N.A.           |
| 863.381-014    | PIPE COVERER AND INSULATOR            | 0      | 2            | 0            | N.A.           |
| 915.684-010    | TIRE REPAIRER                         | 0      | 0            | 0            | 6.17           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE              | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|--------------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| TOOL AND DIE MAKERS                  | 89102       | 7              | 7              | 0                     | 0                   | 0            |
| MACHINISTS                           | 89108       | 738            | 750            | 1                     | 22                  | 23           |
| TOOL GRINDERS, FILERS, SHARPENERS    | 89111       | 154            | 166            | 1                     | 5                   | 6            |
| PATTERN & MODEL MAKERS, WOOD         | 89302       | 1              | 1              | 0                     | 0                   | 0            |
| WOOD MACHINISTS                      | 89308       | 77             | 82             | 1                     | 2                   | 3            |
| MOLDERS & SHAPERS, EXC. JEWELRY      | 89905       | 6              | 6              | 0                     | 0                   | 0            |
| SAWING MACH. TOOL SETTER/OP., M/P    | 91102       | 2              | 2              | 0                     | 0                   | 0            |
| LATHE, TURNING MACH. SETTER/OP., M/P | 91105       | 15             | 13             | 0                     | 0                   | 0            |
| DRILLING, BORING MACH. SET/OP., M/P  | 91108       | 2              | 2              | 0                     | 0                   | 0            |
| GRINDING, BUFFING MACH. SET/OP., M/P | 91114       | 4              | 5              | 0                     | 0                   | 0            |
| MACHINE TOOL CUTTING OPER., M/P      | 91117       | 20             | 14             | -1                    | 0                   | -1           |
| PUNCHING MACH. SETTER/OPER., M/P     | 91302       | 7              | 8              | 0                     | 0                   | 0            |
| PRESS, BRAKE MACH. SETTER/OP., M/P   | 91305       | 10             | 8              | 0                     | 0                   | 0            |
| MACHINE FORMING OPERATORS, M/P       | 91321       | 11             | 11             | 0                     | 1                   | 1            |
| COMBINATION MACH. TOOL OPER., M/P    | 91508       | 54             | 37             | -2                    | 1                   | -1           |
| PLASTIC MOLDING, CASTING OPER.       | 91905       | 7              | 7              | 0                     | 1                   | 1            |
| ALL OTHER MET./PLAST. MACH. SET/     | 92100       | 11             | 13             | 0                     | 0                   | 0            |
| SAWING MACHINE SETTER/OPERATOR       | 92302       | 38             | 41             | 0                     | 0                   | 0            |
| SAWING MACHING OPERATOR/TENDER       | 92308       | 617            | 664            | 5                     | 8                   | 13           |
| MACHINE BUILDERS                     | 93105       | 5              | 5              | 0                     | 0                   | 0            |
| ***TOTALS                            |             | 1786           | 1842           | 5                     | 40                  | 45           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| MACHINE TOOL OPERATIO | 48.0503     |                  | 13          |                | 3    | 1            |                 | 2            | 19             |
| ***TOTALS             |             |                  | 13          |                | 3    | 1            |                 | 2            | 19             |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                        | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--|--------|--------------|--------------|----------------|
| 521.682-026    | GRINDER OPERATOR                       | 0      | 0            | 0            | 8.51           |
| 557.382-010    | EXTRUDER OPERATOR                      | 0      | 2            | 0            | N.A.           |
| 600.280-022    | MACHINIST                              | 3      | 168          | 35           | 10.15          |
| 600.280-030    | MACHINIST APPRENTICE, AUTOMOTIVE       | 1      | 0            | 0            | N.A.           |
| 600.280-034    | MACHINIST, AUTOMOTIVE                  | 0      | 0            | 0            | 8.86           |
| 600.380-018    | MACHINE SET-UP OPERATOR                | 0      | 5            | 1            | 6.51           |
| 601.280-046    | TOOL-AND-DIE MAKER                     | 0      | 3            | 0            | 10.59          |
| 603.280-018    | GRINDER OPERATOR, TOOL                 | 0      | 0            | 1            | N.A.           |
| 603.664-010    | TOOL GRINDER 2                         | 0      | 4            | 5            | N.A.           |
| 603.682-026    | POLISHING-MACHINE OPERATOR             | 0      | 1            | 0            | N.A.           |
| 603.685-062    | GRINDER OPERATOR, PRODUCTION           | 0      | 0            | 0            | 8.62           |
| 604.280-014    | SCREW-MACHINE SET-UP OPERATOR, MULTIPL | 0      | 0            | 0            | 7.80           |
| 604.685-026    | LATHE OPERATOR, PRODUCTION             | 0      | 5            | 3            | N.A.           |
| 605.380-010    | MILLING-MACHINE OPERATOR, NUMERICAL CO | 0      | 0            | 0            | 7.41           |
| 606.682-010    | BORING-MACHINE OPERATOR                | 0      | 1            | 0            | N.A.           |
| 606.682-014    | DRILL-PRESS OPERATOR                   | 0      | 0            | 0            | 7.84           |
| 609.684-014    | LABORER, GENERAL                       | 0      | 0            | 0            | 7.91           |
| 609.685-018    | PRODUCTION-MACHINE TENDER              | 0      | 4            | 0            | 10.20          |
| 615.482-022    | PUNCH-PRESS OPERATOR 1                 | 0      | 0            | 1            | N.A.           |
| 619.130-030    | SUPERVISOR, LINE                       | 0      | 0            | 0            | 11.49          |
| 626.281-010    | MACHINE REPAIRER, MAINTENANCE          | 0      | 3            | 0            | N.A.           |
| 638.684-018    | MAINTENANCE-MECHANIC HELPER            | 0      | 6            | 6            | N.A.           |
| 669.686-018    | CHAIN OFFBEARER                        | 0      | 0            | 0            | 8.37           |
| 691.382-010    | EXTRUDING-MACHINE OPERATOR             | 0      | 1            | 0            | N.A.           |
| 701.381-014    | SAW FILER                              | 0      | 0            | 0            | 11.02          |
| 705.687-014    | LABORER, GRINDING AND POLISHING        | 0      | 4            | 0            | N.A.           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| REINFORCING METAL WORKERS        | 87314       | 86             | 103            | 2                     | 1                   | 3            |
| SHEET METAL DUCT INSTALLERS      | 87805       | 6              | 7              | 0                     | 0                   | 0            |
| STRUCTURAL METAL WORKERS         | 87814       | 131            | 161            | 3                     | 2                   | 5            |
| SHEET METAL WORKERS              | 89132       | 262            | 284            | 2                     | 1                   | 3            |
| BOILERMAKERS                     | 89135       | 31             | 30             | 0                     | 0                   | 0            |
| ALL OTHER PRECISION METAL WORKER | 89199       | 1              | 1              | 0                     | 0                   | 0            |
| FOUNDRY MOLD & CORE MAKERS       | 89902       | 12             | 9              | 0                     | 1                   | 1            |
| STRUCTURAL METAL FABRICATORS     | 91714       | 162            | 120            | -5                    | 5                   | 0            |
| METAL MOLDING, CASTING OPERATOR  | 91911       | 6              | 4              | 0                     | 1                   | 1            |
| ELECTROLYTIC PLATING SET/OP.,M/P | 91917       | 13             | 9              | 0                     | 0                   | 0            |
| METAL POURERS, BASIC SHAPES      | 93941       | 35             | 24             | -1                    | 1                   | 0            |
| ***TOTALS                        |             | 745            | 752            | 1                     | 12                  | 13           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| PRECISION METAL WORK, | 48.0501     | 49               |             |                |      |              |                 |              | 49             |
| FOUNDRY WORK          | 48.0502     |                  |             |                | 3    |              |                 |              | 3              |
| METAL FABRICATION     | 48.0504     |                  |             |                | 8    |              |                 | 2            | 10             |
| ***TOTALS             |             | 49               |             |                | 11   |              |                 | 2            | 62             |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                      | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--------------------------------------|--------|--------------|--------------|----------------|
| 504.682-018    | HEAT TREATER 2                       | 0      | 1            | 14           | N.A.           |
| 509.686-010    | LABORER, GENERAL                     | 0      | 68           | 71           | N.A.           |
| 518.361-010    | MOLDER                               | 0      | 0            | 0            | 7.19           |
| 519.687-022    | FOUNDRY WORKER, GENERAL              | 0      | 11           | 23           | 4.66           |
| 619.260-008    | ORNAMENTAL-METAL WORKER              | 0      | 1            | 0            | N.A.           |
| 619.360-014    | METAL FABRICATOR                     | 0      | 7            | 11           | N.A.           |
| 804.281-010    | SHEET-METAL WORKER                   | 7      | 104          | 22           | N.A.           |
| 805.261-014    | BOILERMAKER 1                        | 0      | 40           | 0            | N.A.           |
| 806.134-010    | SUPERVISOR, AUTOMOBILE ASSEMBLY      | 0      | 0            | 0            | 9.37           |
| 806.381-046    | SHIPFITTER                           | 0      | 1            | 0            | N.A.           |
| 809.281-010    | LAY-OUT WORKER 1                     | 0      | 2            | 1            | N.A.           |
| 809.381-010    | FABRICATOR-ASSEMBLER, METAL PRODUCTS | 0      | 0            | 0            | 10.72          |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE           | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| ESTIMATORS & DRAFTERS, UTILITIES  | 22517       | 16             | 18             | 0                     | 0                   | 0            |
| CUSTOMER SERVICE REPS, UTILITIES  | 55335       | 250            | 271            | 2                     | 4                   | 6            |
| METER READERS, UTILITIES          | 58014       | 202            | 212            | 1                     | 4                   | 5            |
| CENTRAL OFFICE & PBX INSTAL/RPR.  | 85502       | 231            | 248            | 2                     | 3                   | 5            |
| FRAME WIRERS, CENTRAL OFFICE      | 85505       | 18             | 15             | 0                     | 0                   | 0            |
| ALL OTHER COMMUN.EQUIP.MECHANICS  | 85599       | 37             | 44             | 1                     | 1                   | 2            |
| TELEPHONE & CABLE TV INSTAL/RPR.  | 85702       | 287            | 280            | -1                    | 2                   | 1            |
| POWERHOUSE & RELAY ELECTRICIANS   | 85721       | 44             | 49             | 1                     | 1                   | 2            |
| ELECTRICAL POWERLINE INSTAL/RPR.  | 85723       | 552            | 549            | 0                     | 14                  | 14           |
| TELEPH. STATION INSTALL. & REPAIR | 85726       | 207            | 165            | -5                    | 2                   | -3           |
| ELECTRIC METER INSTALLERS/REPAIR  | 85911       | 107            | 122            | 2                     | 17                  | 19           |
| ***TOTALS                         |             | 1951           | 1973           | 3                     | 48                  | 51           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| *TELECOMMUNICATIONS   | 09.0801     |                  |             |                |      |              | 42              |              | 42             |
| LINEWORKER            | 46.0303     |                  |             |                |      | 4            |                 | 1            | 5              |
| PLUMBING              | 46.0503     |                  |             |                |      | 1            |                 |              | 1              |
| CONVENTIONAL ELECTRIC | 47.0502     |                  |             | 1              | 1    |              |                 | 2            | 4              |
| ***TOTALS             |             |                  |             | 1              | 6    |              | 42              | 3            | 52             |

\* The following breakdown of hiring occurred with these graduates: 35 were hired into telephone occupations, four used school to improve skills, three were not hired into the telephone industry. Nearly all of these jobs were located outside the state of Montana.

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                    | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|------------------------------------|--------|--------------|--------------|----------------|
| 209.567-010    | METER READER                       | 0      | 0            | 0            | 7.98           |
| 710.281-026    | INSTRUMENT MECHANIC                | 0      | 3            | 1            | N.A.           |
| 821.131-014    | LINE SUPERVISOR                    | 0      | 0            | 0            | 16.22          |
| 821.261-014    | LINE MAINTAINER                    | 1      | 0            | 0            | 11.83          |
| 821.361-018    | LINE ERECTOR                       | 1      | 0            | 0            | 15.09          |
| 821.361-026    | LINE REPAIRER                      | 6      | 14           | 1            | 15.24          |
| 822.281-014    | CENTRAL-OFFICE REPAIRER            | 1      | 3            | 0            | N.A.           |
| 822.381-018    | PRIVATE-BRANCH-EXCHANGE INSTALLER  | 1      | 0            | 0            | 13.28          |
| 824.281-014    | ELECTRIC-DISTRIBUTION CHECKER      | 2      | 0            | 0            | N.A.           |
| 862.684-014    | LABORER, CONSTRUCTION OR LEAK GANG | 0      | 18           | 27           | N.A.           |
| 952.362-026    | SUBSTATION OPERATOR                | 0      | 1            | 0            | N.A.           |
| 952.362-038    | SWITCHBOARD OPERATOR               | 0      | 1            | 0            | N.A.           |
| 952.362-042    | TURBINE OPERATOR                   | 0      | 1            | 0            | N.A.           |



## DEMAND REPORT

| [STATEWIDE]                      |             | MONTANA DEPARTMENT OF LABOR AND INDUSTRY |                |                       |                     |              |
|----------------------------------|-------------|--|----------------|-----------------------|---------------------|--------------|
| OCCUPATION -<br>TITLE            | OES<br>CODE | 1986<br>EMPLOY                           | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
| MENDERS, GARMENTS & LINENS       | 85956       | 50                                       | 54             | 0                     | 2                   | 2            |
| CUSTOM TAILORS & SEWERS          | 89505       | 81                                       | 93             | 1                     | 11                  | 12           |
| UPHOLSTERERS                     | 89508       | 82                                       | 101            | 2                     | 2                   | 4            |
| SHOE & LEATHER WORKERS           | 89511       | 21                                       | 23             | 0                     | 3                   | 3            |
| SPOTTERS, DRY CLEANING           | 89514       | 36                                       | 41             | 1                     | 2                   | 3            |
| PRESSERS, DELICATE FABRICS       | 89517       | 71                                       | 81             | 1                     | 4                   | 5            |
| ALL OTHER PRECISION TEXTILE,APPA | 89599       | 8  | 8              | 0                     | 1                   | 1            |
| TEXTILE MACHINE OPERATORS        | 92705       | 2  | 4              | 0                     | 0                   | 0            |
| SEWING MACH. OPERATOR, GARMENT   | 92717       | 232                                      | 433            | 22                    | 21                  | 43           |
| SEWING MACH. OPER., NON-GARMENT  | 92721       | 57                                       | 77             | 2                     | 4                   | 6            |
| SHOE SEWING MACHINE OPERATOR     | 92723       | 16                                       | 18             | 0                     | 0                   | 0            |
| LAUNDRY, DRYCLEANING MACH. OPER. | 92726       | 600                                      | 708            | 12                    | 36                  | 48           |
| PRESSING MACH.OPERATOR, TEXTILES | 92728       | 84                                       | 98             | 2                     | 5                   | 7            |
| PRESSERS, HAND                   | 93921       | 20                                       | 23             | 0                     | 0                   | 0            |
| SEWERS, HAND                     | 93923       | 6  | 7              | 0                     | 0                   | 0            |
| CUTTERS & TRIMMERS, HAND         | 93926       | 12                                       | 15             | 0                     | 0                   | 0            |
| ***TOTALS                        |             | 1378                                     | 1784           | 43                    | 91                  | 134          |

## SUPPLY REPORT

| [STATEWIDE]           |             |                  |             |                |      | SCHOOL YEAR 1988-89 |                 |              |                |
|-----------------------|-------------|------------------|-------------|----------------|------|---------------------|-----------------|--------------|----------------|
| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS        | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
| DRYCLEANING & LAUNDRY | 12.0101     |                  |             |                | 4    |                     |                 | 1            | 5              |
| CLOTHING/APPAREL/TEXT | 20.0301     | 92               |             |                |      |                     |                 |              | 92             |
| CLOTHING MAINTENANCE  | 20.0302     |                  |             |                | 2    |                     |                 | 1            | 3              |
| COMMERCIAL GARMENT &  | 20.0303     |                  |             |                | 4    |                     |                 | 5            | 9              |
| CUSTOM APPAREL/GARME  | 20.0304     |                  |             |                | 1    |                     |                 |              | 1              |
| UPHOLSTERING          | 48.0303     |                  |             |                | 6    |                     |                 | 1            | 7              |
| ***TOTALS             |             | 92               |             |                | 17   |                     |                 | 8            | 117            |

# ANALYSIS INFORMATION

[STATEWIDE]

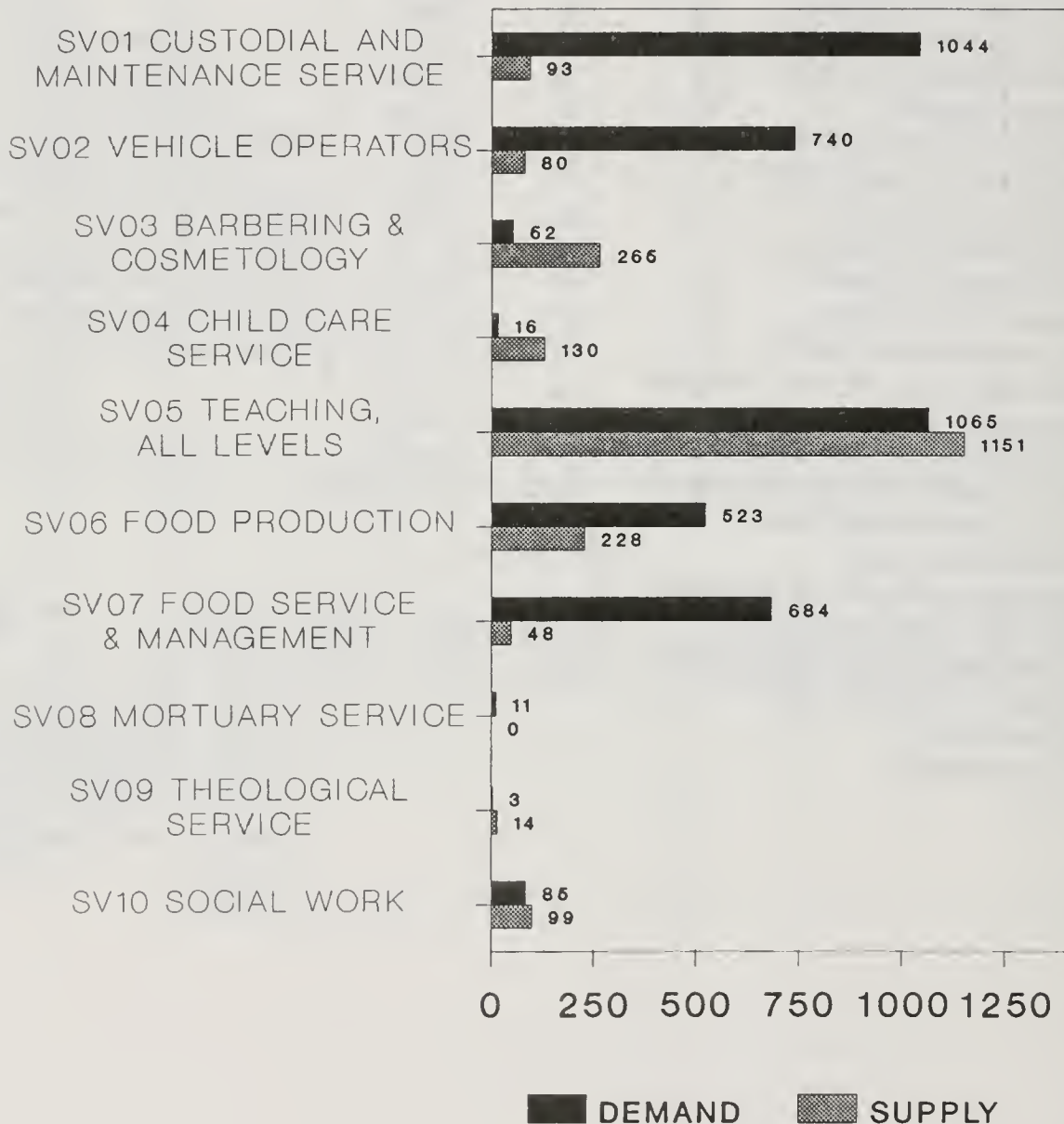
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE            | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|----------------------------|--------|--------------|--------------|----------------|
| 142.061-018    | CLOTHES DESIGNER           | 0      | 2            | 0            | N.A.           |
| 221.367-070    | SERVICE CLERK              | 0      | 0            | 0            | 5.98           |
| 302.687-010    | IRONER                     | 0      | 1            | 2            | N.A.           |
| 361.137-010    | SUPERVISOR, LAUNDRY        | 0      | 0            | 0            | 7.04           |
| 361.665-010    | WASHER, MACHINE            | 0      | 10           | 3            | N.A.           |
| 361.684-014    | LAUNDRY WORKER 1           | 0      | 0            | 0            | 4.78           |
| 361.685-018    | LAUNDRY WORKER 2           | 0      | 53           | 46           | N.A.           |
| 361.687-014    | CLASSIFIER                 | 0      | 1            | 0            | N.A.           |
| 361.687-018    | LAUNDRY LABORER            | 0      | 58           | 17           | N.A.           |
| 362.684-010    | DRY CLEANER, HAND          | 0      | 1            | 0            | N.A.           |
| 363.681-010    | SILK FINISHER              | 0      | 0            | 0            | 4.86           |
| 363.682-018    | PRESSER, MACHINE           | 0      | 5            | 4            | N.A.           |
| 363.684-018    | PRESSER, HAND              | 0      | 3            | 8            | N.A.           |
| 363.685-026    | SHIRT PRESSER              | 0      | 1            | 0            | N.A.           |
| 363.686-010    | FLATWORK FINISHER          | 0      | 2            | 0            | N.A.           |
| 685.665-014    | KNITTING-MACHINE OPERATOR  | 0      | 1            | 0            | N.A.           |
| 689.684-010    | BURLER                     | 0      | 2            | 0            | N.A.           |
| 690.682-082    | STITCHER, STANDARD MACHINE | 0      | 3            | 1            | N.A.           |
| 780.381-018    | FURNITURE UPHOLSTERER      | 0      | 9            | 9            | 6.00           |
| 780.681-010    | UPHOLSTERER, INSIDE        | 0      | 2            | 1            | N.A.           |
| 782.684-058    | SEWER, HAND                | 0      | 14           | 5            | N.A.           |
| 783.682-014    | SEWING-MACHINE OPERATOR    | 0      | 1            | 3            | N.A.           |
| 785.261-010    | ALTERATION TAILOR          | 0      | 27           | 26           | 4.48           |
| 787.682-046    | SEWING-MACHINE OPERATOR    | 0      | 101          | 39           | 4.86           |
| 789.687-066    | GARMENT FOLDER             | 0      | 0            | 5            | N.A.           |
| 795.687-014    | GLUER                      | 0      | 1            | 0            | N.A.           |
| 920.687-018    | BAGGER                     | 0      | 0            | 0            | 3.98           |

# SERVICE CLUSTERS

## DEMAND VS. SUPPLY

ESTIMATED ANNUAL OPENINGS VS. TRAINING COMPLETERS



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE           | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| CONSTRUCTION, BUILDING INSPECTOR  | 21908       | 186            | 207            | 2                     | 8                   | 10           |
| HOUSEKEEPERS, INSTITUTIONAL       | 61008       | 422            | 504            | 9                     | 63                  | 72           |
| JANITORS, CLEANERS, MAIDS         | 67001       | 7              | 9              | 0                     | 0                   | 0            |
| MAIDS & HOUSEKEEPING CLEANERS     | 67002       | 3417           | 3854           | 49                    | 138                 | 187          |
| JANITORS & CLEANERS, EXC. MAIDS   | 67005       | 5610           | 6594           | 109                   | 389                 | 498          |
| PEST CONTROLLERS & ASSISTANTS     | 67008       | 51             | 51             | 0                     | 5                   | 5            |
| ELEVATOR OPERATORS                | 67011       | 1              | 1              | 0                     | 0                   | 0            |
| ALL OTHER CLEAN, BUILDING SERVICE | 67099       | 847            | 932            | 9                     | 34                  | 43           |
| MAINTENANCE REPAIRERS, GEN. UTIL. | 85132       | 3305           | 3840           | 59                    | 160                 | 219          |
| MOBILE HOME INSTALLER & REPAIRER  | 85938       | 119            | 127            | 1                     | 6                   | 7            |
| PARKING LOT ATTENDANTS            | 97808       | 12             | 16             | 0                     | 3                   | 3            |
| ***TOTALS                         |             | 13977          | 16135          | 238                   | 806                 | 1044         |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| CUSTODIAL SERVICES     | 20.0604     |                  |             |                | 6    |              |                 | 5            | 11             |
| EXECUTIVE HOUSEKEEPIN  | 20.0605     |                  |             |                | 2    |              |                 | 2            | 4              |
| HOMEMAKER'S AIDE       | 20.0606     |                  |             |                | 1    |              |                 | 1            | 2              |
| BUILDING & PROPERTY MA | 46.0401     |                  |             |                | 21   | 37           |                 | 18           | 76             |
| ***TOTALS              |             |                  |             |                | 30   | 37           |                 | 26           | 93             |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                      | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--------------------------------------|--------|--------------|--------------|----------------|
| 187.167-046    | EXECUTIVE HOUSEKEEPER                | 0      | 0            | 0            | 6.78           |
| 301.474-010    | HOUSE WORKER, GENERAL                | 0      | 228          | 370          | N.A.           |
| 301.687-010    | CARETAKER                            | 0      | 0            | 0            | 4.56           |
| 321.137-010    | HOUSEKEEPER                          | 0      | 0            | 0            | 4.81           |
| 323.687-010    | CLEANER, HOSPITAL                    | 0      | 58           | 59           | 4.36           |
| 323.687-014    | CLEANER, HOUSEKEEPING                | 0      | 956          | 973          | N.A.           |
| 381.137-010    | SUPERVISOR, JANITORIAL SERVICES      | 0      | 0            | 0            | 6.33           |
| 381.687-014    | CLEANER, COMMERCIAL OR INSTITUTIONAL | 0      | 593          | 522          | 4.78           |
| 381.687-018    | CLEANER, INDUSTRIAL                  | 0      | 0            | 0            | 6.23           |
| 382.664-010    | JANITOR                              | 0      | 0            | 0            | 5.02           |
| 389.684-010    | EXTERMINATOR                         | 0      | 5            | 3            | N.A.           |
| 809.687-022    | LABORER, SHIPYARD                    | 0      | 1            | 0            | N.A.           |
| 899.381-010    | MAINTENANCE REPAIRER, BUILDING       | 0      | 620          | 196          | 6.95           |
| 899.684-022    | MAINTENANCE-REPAIRER HELPER, FACTORY | 0      | 3            | 1            | N.A.           |
| 919.687-014    | CLEANER 2                            | 0      | 66           | 71           | 5.11           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| AMBULANCE DRIVERS & ATTENDANTS   | 66023       | 66             | 74             | 1                     | 2                   | 3                 |
| FIRST LINE SUPERV.: TRANSPORT.   | 81011       | 231            | 263            | 4                     | 12                  | 16                |
| AIR HAMMER OPERATORS             | 87702       | 28             | 33             | 1                     | 1                   | 2                 |
| PILE DRIVING OPERATORS           | 87705       | 5              | 6              | 0                     | 0                   | 0                 |
| PAVING, SURFACING, TAMPING       | 87708       | 156            | 175            | 2                     | 6                   | 8                 |
| HIGHWAY MAINTENANCE WORKERS      | 87711       | 967            | 1001           | 4                     | 20                  | 24                |
| RAIL TRACK LAYING EQUIP. OPER.   | 87714       | 296            | 253            | -5                    | 6                   | 1                 |
| TRUCK DRIVERS                    | 97101       | 7316           | 8357           | 116                   | 271                 | 387               |
| BUS DRIVERS                      | 97108       | 259            | 293            | 4                     | 14                  | 18                |
| BUS DRIVERS, SCHOOL              | 97111       | 1426           | 1697           | 30                    | 80                  | 110               |
| TAXI DRIVERS & CHAUFFEURS        | 97114       | 93             | 99             | 1                     | 5                   | 6                 |
| ALL OTHER MOTOR VEHICLE OPERATOR | 97199       | 127            | 140            | 1                     | 5                   | 6                 |
| RAILROAD CONDUCTORS, YARDMASTERS | 97302       | 283            | 256            | -3                    | 7                   | 4                 |
| LOCOMOTIVE ENGINEERS             | 97305       | 234            | 226            | -1                    | 7                   | 6                 |
| RAIL YARD ENGINEERS,DINKEY OPER. | 97308       | 39             | 34             | -1                    | 1                   | 0                 |
| LOCOMOTIVE FIRERS                | 97311       | 80             | 66             | -2                    | 2                   | 0                 |
| RAILROAD BRAKE, SIGNAL, SWITCH   | 97317       | 619            | 539            | -9                    | 7                   | -2                |
| ALL OTHER RAIL VEHICLE OPERATORS | 97399       | 30             | 27             | 0                     | 0                   | 0                 |
| BRIDGE, LOCK, LIGHTHOUSE TENDERS | 97802       | 16             | 17             | 0                     | 0                   | 0                 |
| ALL OTHER TRANSPORTATION WORKERS | 97899       | 243            | 272            | 3                     | 9                   | 12                |
| TANK CAR & TRUCK LOADERS         | 97905       | 18             | 14             | 0                     | 0                   | 0                 |
| GRADER, DOZER, SCRAPER OPERATORS | 97938       | 384            | 467            | 9                     | 41                  | 50                |
| HOIST & WINCH OPERATORS          | 97941       | 107            | 105            | 0                     | 0                   | 0                 |
| CRANE & TOWER OPERATORS          | 97944       | 78             | 83             | 1                     | 2                   | 3                 |
| INDUSTRIAL TRUCK & TRACTOR OPER. | 97947       | 716            | 649            | -7                    | 6                   | -1                |
| CONVEYOR OPERATORS & TENDERS     | 97951       | 264            | 287            | 3                     | 8                   | 11                |
| OPERATING ENGINEERS              | 97956       | 1210           | 1373           | 18                    | 39                  | 57                |
| ALL OTHER TRANSP.,MAT.MOVING OPR | 97989       | 160            | 177            | 2                     | 6                   | 8                 |
| VEHICLE, EQUIPMENT CLEANERS      | 98905       | 467            | 524            | 6                     | 5                   | 11                |
| ***TOTALS                        |             | 15918          | 17507          | 178                   | 562                 | 740               |

# SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| PROGRAM -<br>TITLE     | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| VEHICLE & EQUIPMENT OP | 49.0201     |                  |             |                |      |              |                 | 1            | 1              |
| CONSTRUCTION EQUIPMEN  | 49.0202     |                  | 10          |                | 2    | 13           |                 |              | 25             |
| MATERIAL HANDLING      | 49.0203     |                  |             |                | 9    | 2            |                 | 1            | 12             |
| TRUCK & BUS DRIVING    | 49.0205     |                  | 23          |                | 11   |              |                 | 7            | 41             |
| VEHICLE & EQUIPMENT OP | 49.0299     |                  |             |                |      |              |                 | 1            | 1              |
| ***TOTALS              |             |                  | 33          |                | 22   | 15           |                 | 10           | 80             |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                 | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------------------|--------|--------------|--------------|----------------|
| 168.267-058    | INSPECTOR, MOTOR VEHICLES       | 0      | 14           | 6            | N.A.           |
| 850.663-022    | MOTOR-GRADER OPERATOR           | 0      | 0            | 0            | 15.50          |
| 902.683-010    | DUMP-TRUCK DRIVER               | 0      | 0            | 0            | 14.74          |
| 903.683-018    | TANK-TRUCK DRIVER               | 0      | 25           | 6            | 7.61           |
| 904.383-010    | TRACTOR-TRAILER-TRUCK DRIVER    | 0      | 999          | 316          | 8.48           |
| 905.663-014    | TRUCK DRIVER, HEAVY             | 0      | 1127         | 325          | 9.63           |
| 906.683-010    | FOOD-SERVICE DRIVER             | 0      | 0            | 0            | 6.79           |
| 906.683-022    | TRUCK DRIVER, LIGHT             | 0      | 383          | 153          | 7.09           |
| 913.463-010    | BUS DRIVER                      | 0      | 268          | 125          | 6.54           |
| 913.463-018    | TAXI DRIVER                     | 0      | 45           | 24           | 3.08           |
| 913.683-010    | AMBULANCE DRIVER                | 0      | 0            | 0            | 7.44           |
| 915.473-010    | PARKING-LOT ATTENDANT           | 0      | 20           | 30           | 3.49           |
| 915.667-010    | CAR-WASH ATTENDANT, AUTOMATIC   | 0      | 16           | 19           | N.A.           |
| 919.683-014    | DRIVER                          | 0      | 2            | 3            | N.A.           |
| 921.663-010    | BRIDGE-OR-GANTRY-CRANE OPERATOR | 0      | 12           | 0            | N.A.           |
| 921.663-022    | DERRICK OPERATOR                | 0      | 0            | 0            | 13.39          |
| 921.683-042    | FRONT-END LOADER OPERATOR       | 0      | 0            | 0            | 15.44          |
| 921.683-050    | INDUSTRIAL-TRUCK OPERATOR       | 0      | 0            | 0            | 9.79           |
| 922.687-058    | LABORER, STORES                 | 0      | 0            | 0            | 7.28           |
| 929.683-014    | TRACTOR OPERATOR                | 0      | 0            | 0            | 11.57          |
| 929.687-030    | MATERIAL HANDLER                | 0      | 1570         | 7169         | 7.84           |
| 932.683-018    | MECHANICAL-SHOVEL OPERATOR      | 0      | 0            | 0            | 13.13          |
| 950.382-026    | STATIONARY ENGINEER             | 0      | 31           | 6            | 10.25          |

## DEMAND REPORT

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE       | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | OPEN |
|-------------------------------|-------------|----------------|----------------|-----------------------|---------------------|------|
| BARBERS                       | 68002       | 77             | 83             | 1                     | 10                  | 11   |
| HAIRDRESSERS & COSMETOLOGISTS | 68005       | 905            | 1050           | 16                    | 25                  | 41   |
| MANICURISTS                   | 68008       | 3              | 3              | 0                     | 0                   | 0    |
| ***TOTALS                     |             | 985            | 1136           | 17                    | 35                  | 52   |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| BARBERING/HAIRSTYLING | 12.0402     |                  |             |                |      |              | 28              |              | 28             |
| COSMETOLOGY           | 12.0403     |                  |             |                | 4    |              | 231             | 2            | 237            |
| ***TOTALS             |             |                  |             |                | 4    |              | 259             | 2            | 265            |

## ANALYSIS INFORMATION

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-----------------|--------|--------------|--------------|----------------|
| 330.371-010    | BARBER          | 0      | 25           | 3            | N.A.           |
| 332.271-010    | COSMETOLOGIST   | 0      | 183          | 41           | 3.93           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| CHILD CARE WORKERS      | 68038       | 458            | 464            | 1                     | 15                  | 16           |
| ***TOTALS               |             | 458            | 464            | 1                     | 15                  | 16           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE    | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| CHILD CARE & GUIDANCE   | 20.0201     | 109              | 11          |                |      |              |                 |              | 120            |
| CHILD CARE AIDE/ASSISTI | 20.0202     |                  |             |                |      | 3            |                 | 2            | 5              |
| CHILD CARE MANAGEMENT   | 20.0203     |                  |             |                |      | 2            | 2               | 1            | 5              |
| ***TOTALS               |             | 109              | 11          |                | 5    |              | 2               | 3            | 130            |

## ANALYSIS INFORMATION

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                   | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-----------------------------------|--------|--------------|--------------|----------------|
| 092.227-018    | TEACHER, PRESCHOOL                | 0      | 0            | 0            | 7.76           |
| 359.677-010    | ATTENDANT, CHILDREN'S INSTITUTION | 0      | 70           | 65           | 3.62           |
| 359.677-018    | NURSERY SCHOOL ATTENDANT          | 0      | 258          | 133          | 4.48           |
| 359.677-026    | PLAYROOM ATTENDANT                | 0      | 6            | 2            | N.A.           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE           | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|-----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| *LECTURERS                        | 31111       | 72             | 82             | 1                     | 2                   | 3                 |
| *NURSING INSTRUCTORS              | 31114       | 127            | 152            | 3                     | 5                   | 8                 |
| *GRADUATE ASSISTANTS, TEACHING    | 31117       | 753            | 804            | 6                     | 23                  | 29                |
| *LIFE SCIENCE TEACHERS            | 31202       | 275            | 327            | 6                     | 9                   | 15                |
| *CHEMISTRY TEACHERS               | 31204       | 72             | 86             | 2                     | 2                   | 4                 |
| *PHYSICS TEACHERS                 | 31206       | 51             | 61             | 1                     | 2                   | 3                 |
| *ALL OTHER PHYS. SCIENCE TEACHER  | 31209       | 49             | 58             | 1                     | 2                   | 3                 |
| *SOCIAL SCIENCE TEACHERS          | 31210       | 205            | 243            | 4                     | 7                   | 11                |
| *HEALTH SPECIALTIES TEACHERS      | 31212       | 40             | 48             | 1                     | 1                   | 2                 |
| *ENGLISH & FOREIGN LANG. TEACHER  | 31216       | 188            | 223            | 4                     | 15                  | 19                |
| *ART, DRAMA, & MUSIC TEACHERS     | 31218       | 148            | 176            | 3                     | 5                   | 8                 |
| *ENGINEERING TEACHERS             | 31222       | 117            | 139            | 2                     | 4                   | 6                 |
| *MATHEMATICAL SCIENCE TEACHERS    | 31224       | 111            | 132            | 2                     | 4                   | 6                 |
| *COMPUTER SCIENCE TEACHERS        | 31226       | 58             | 69             | 1                     | 2                   | 3                 |
| *ALL OTHER POSTSECONDARY TEACHER  | 31299       | 541            | 643            | 11                    | 18                  | 29                |
| TEACHERS, PRESCHOOL & KINDERGARTN | 31302       | 893            | 1036           | 16                    | 16                  | 32                |
| TEACHERS, ELEMENTARY              | 31305       | 5812           | 6902           | 121                   | 148                 | 269               |
| TEACHERS, SECONDARY SCHOOL        | 31308       | 4418           | 5116           | 78                    | 71                  | 149               |
| TEACHERS, SPECIAL EDUCATION       | 31311       | 1096           | 1301           | 23                    | 19                  | 42                |
| TEACHERS, VOCATIONAL EDUCATION    | 31314       | 636            | 730            | 10                    | 33                  | 43                |
| INSTRUCTORS, NONVOCATIONAL EDUC   | 31317       | 517            | 640            | 14                    | 28                  | 42                |
| INSTRUCTORS & COACHES, SPORTS     | 31321       | 972            | 1176           | 23                    | 52                  | 75                |
| ALL OTHER TEACHERS, INSTRUCTORS   | 31399       | 553            | 660            | 12                    | 29                  | 41                |
| VOCATIONAL & EDUC. COUNSELORS     | 31514       | 335            | 403            | 8                     | 8                   | 16                |
| INSTRUCTIONAL COORDINATORS        | 31517       | 60             | 69             | 1                     | 3                   | 4                 |
| TEACHERS AIDES-PARAPROFESSIONAL   | 31521       | 1129           | 1338           | 23                    | 120                 | 143               |
| TEACHER AIDES & EDUC. ASSISTANT   | 53904       | 940            | 1159           | 24                    | 36                  | 60                |
| ***TOTALS                         |             | 20168          | 23773          | 401                   | 664                 | 1065              |

\* POSTSECONDARY LEVEL TEACHERS



# SUPPLY REPORT

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SCHOOL YEAR 1988-89

| PROGRAM -<br>TITLE       | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|--------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| EDUCATION, GENERAL       | 13.0101     |                  |             | 169            | 1    |              |                 | 1            | 171            |
| SCHOOL PSYCHOLOGY        | 13.0801     |                  |             | 5              |      |              |                 |              | 5              |
| SPECIAL EDUCATION, GEN   | 13.1001     |                  |             | 26             |      |              |                 |              | 26             |
| EDUCATION OF THE EMOT    | 13.1005     |                  |             | 4              |      |              |                 |              | 4              |
| EDUCATION OF THE MULT    | 13.1007     |                  |             | 2              |      |              |                 |              | 2              |
| SPECIFIC LEARNING DISAB  | 13.1011     |                  |             | 5              |      |              |                 |              | 5              |
| STUDENT COUNSELING &     | 13.1101     |                  |             | 57             | 3    |              |                 | 3            | 63             |
| ELEMENTARY EDUCATION     | 13.1202     |                  |             | 389            | 2    |              |                 | 4            | 395            |
| PRE-ELEMENTARY EDUCAT    | 13.1204     |                  |             | 18             |      |              |                 |              | 18             |
| SECONDARY EDUCATION      | 13.1205     |                  |             | 33             | 3    |              |                 | 13           | 49             |
| AGRICULTURAL EDUCATIO    | 13.1301     |                  |             | 12             |      |              |                 |              | 12             |
| ART EDUCATION            | 13.1302     |                  |             | 8              |      |              |                 |              | 8              |
| BUSINESS EDUCATION       | 13.1303     |                  |             | 31             |      |              |                 |              | 31             |
| ENGLISH EDUCATION        | 13.1305     |                  |             | 24             |      |              |                 |              | 24             |
| FOREIGN LANGUAGES EDU    | 13.1306     |                  |             | 1              |      |              |                 |              | 1              |
| INDUSTRIAL ARTS EDUCA    | 13.1309     |                  |             | 29             |      |              |                 | 2            | 31             |
| MATHEMATICS EDUCATION    | 13.1311     |                  |             | 17             |      |              |                 |              | 17             |
| MUSIC EDUCATION          | 13.1312     |                  |             | 21             |      |              |                 |              | 21             |
| PHYSICAL EDUCATION       | 13.1314     |                  |             | 116            |      |              |                 | 2            | 118            |
| READING EDUCATION        | 13.1315     |                  |             | 14             |      |              |                 |              | 14             |
| SCIENCE EDUCATION        | 13.1316     |                  |             | 19             |      |              |                 |              | 19             |
| SOCIAL SCIENCE EDUCATI   | 13.1317     |                  |             | 7              |      |              |                 |              | 7              |
| SOCIAL STUDIES EDUCATI   | 13.1318     |                  |             | 40             |      |              |                 |              | 40             |
| TECHNICAL EDUCATION      | 13.1319     |                  |             | 8              |      |              |                 |              | 8              |
| TRADE & INDUSTRIAL EDU   | 13.1320     |                  |             | 2              |      |              |                 |              | 2              |
| COMPUTER EDUCATION       | 13.1321     |                  |             |                | 1    |              |                 | 2            | 3              |
| TEACHER EDUCATION, SPE   | 13.1399     |                  |             | 2              |      |              |                 |              | 2              |
| TEACHER ASSISTING        | 13.1501     |                  |             |                | 1    |              |                 | 1            | 2              |
| SIGN LANGUAGE INTERPR    | 17.0410     |                  |             |                |      |              |                 | 1            | 1              |
| HOME ECONOMICS, GENE     | 19.0101     |                  |             | 48             |      |              |                 |              | 48             |
| INDIVIDUAL & FAMILY DEVE | 19.0701     |                  |             | 4              |      |              |                 |              | 4              |
| ***TOTALS                |             |                  |             | 1111           | 11   |              |                 | 29           | 1151           |

# ANALYSIS INFORMATION

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                       | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------------------------|--------|--------------|--------------|----------------|
| 045.107-010    | COUNSELOR                             | 0      | 224          | 56           | 8.90           |
| 075.121-010    | NURSE, INSTRUCTOR                     | 0      | 0            | 0            | 14.50          |
| 090.227-010    | FACULTY MEMBER, COLLEGE OR UNIVERSITY | 0      | 95           | 8            | 10.35          |
| 091.227-010    | TEACHER, SECONDARY SCHOOL             | 0      | 438          | 503          | 7.89           |
| 092.227-010    | TEACHER, ELEMENTARY SCHOOL            | 0      | 542          | 2846         | 6.35           |
| 092.227-014    | TEACHER, KINDERGARTEN                 | 0      | 0            | 0            | 5.93           |
| 094.227-018    | TEACHER, HANDICAPPED STUDENTS         | 0      | 0            | 0            | 5.07           |
| 097.227-014    | INSTRUCTOR, VOCATIONAL TRAINING       | 0      | 0            | 0            | 8.70           |
| 099.117-018    | PRINCIPAL                             | 0      | 0            | 0            | 10.56          |
| 099.327-010    | TEACHER AIDE 1                        | 0      | 0            | 0            | 4.99           |
| 153.227-014    | INSTRUCTOR, PHYSICAL                  | 0      | 0            | 0            | 5.33           |
| 153.227-018    | INSTRUCTOR, SPORTS                    | 0      | 0            | 0            | 7.62           |
| 249.367-074    | TEACHER AIDE 2                        | 0      | 332          | 503          | 4.63           |

## DEMAND REPORT

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE           | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| BAKERS, BREAD & PASTRY            | 65021       | 518            | 604            | 10                    | 22                  | 32           |
| BUTCHERS & MEAT CUTTERS           | 65023       | 569            | 667            | 11                    | 18                  | 29           |
| COOKS, RESTAURANT                 | 65026       | 2603           | 3119           | 57                    | 113                 | 170          |
| COOKS, INSTITUTION OR CAFETERIA   | 65028       | 1317           | 1590           | 30                    | 58                  | 88           |
| COOKS, FAST FOOD & SHORT ORDER    | 65030       | 2178           | 2414           | 26                    | 79                  | 105          |
| FOOD PREPARATION WORKERS          | 65038       | 3379           | 3988           | 68                    | 20                  | 88           |
| BUTCHERS & MEATCUTTERS            | 89801       | 98             | 94             | 0                     | 3                   | 3            |
| BAKERS, MANUFACTURING             | 89805       | 133            | 127            | -1                    | 4                   | 3            |
| FOOD BATCHMAKERS                  | 89808       | 4              | 4              | 0                     | 1                   | 1            |
| ALL OTHER PRECISION FOOD, TOBACCO | 89899       | 27             | 26             | 0                     | 4                   | 4            |
| CANNERY WORKERS                   | 93935       | 18             | 17             | 0                     | 0                   | 0            |
| MEAT, POULTRY, FISH CUTTERS       | 93938       | 4              | 4              | 0                     | 0                   | 0            |
| ***TOTALS                         |             | 10848          | 12654          | 201                   | 322                 | 523          |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE    | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| FOOD SCIENCES & HUMAN   | 19.0501     |                  |             | 11             |      |              |                 |              | 11             |
| FOOD PRODUCTION, MGMT   | 20.0401     | 84               | 6           |                |      |              |                 |              | 90             |
| BAKING                  | 20.0402     |                  |             |                | 3    | 4            |                 |              | 7              |
| CHEF/COOK               | 20.0403     |                  | 16          |                | 22   | 44           |                 | 8            | 90             |
| DIETETIC AIDE/ASSISTING | 20.0404     |                  |             |                | 2    |              |                 | 1            | 3              |
| SCHOOL FOOD SERVICE     | 20.0408     |                  |             |                | 14   |              |                 | 11           | 25             |
| MEATCUTTING             | 48.0402     |                  |             |                |      |              |                 | 1            | 1              |
| SLAUGHTERING & BUTCHE   | 48.0403     |                  |             |                | 1    |              |                 |              | 1              |
| ***TOTALS               |             | 84               | 22          | 11             | 42   | 48           |                 | 21           | 228            |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE               | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-------------------------------|--------|--------------|--------------|----------------|
| 222.684-010    | MEAT CLERK                    | 0      | 0            | 0            | 8.52           |
| 313.131-014    | CHEF                          | 0      | 45           | 11           | 5.67           |
| 313.361-014    | COOK                          | 0      | 1241         | 836          | 4.58           |
| 313.361-022    | COOK, SHORT ORDER 1           | 0      | 596          | 356          | 4.43           |
| 313.361-026    | COOK, SPECIALTY               | 0      | 95           | 12           | N.A.           |
| 313.361-030    | COOK, SPECIALTY, FOREIGN FOOD | 0      | 20           | 10           | N.A.           |
| 313.381-010    | BAKER                         | 0      | 18           | 9            | 6.61           |
| 313.684-010    | BAKER HELPER                  | 0      | 3            | 1            | N.A.           |
| 315.361-010    | COOK                          | 0      | 323          | 178          | 5.69           |
| 316.684-010    | BUTCHER, CHICKEN AND FISH     | 0      | 1            | 1            | N.A.           |
| 316.684-018    | MEAT CUTTER                   | 1      | 162          | 41           | 8.37           |
| 317.684-014    | PANTRY GOODS MAKER            | 0      | 57           | 48           | N.A.           |
| 317.687-010    | COOK HELPER                   | 0      | 204          | 70           | 4.17           |
| 318.687-010    | KITCHEN HELPER                | 0      | 1415         | 1237         | 3.82           |
| 355.677-010    | FOOD-SERVICE WORKER, HOSPITAL | 0      | 135          | 151          | 4.64           |
| 525.684-010    | BONER, MEAT                   | 0      | 0            | 0            | 5.73           |
| 525.684-030    | FISH CLEANER                  | 0      | 18           | 152          | N.A.           |
| 525.687-082    | POULTRY-DRESSING WORKER       | 0      | 3            | 0            | N.A.           |
| 526.381-010    | BAKER                         | 4      | 108          | 50           | 7.90           |
| 526.381-026    | COOK, KETTLE                  | 0      | 0            | 0            | 5.92           |
| 526.684-010    | DOUGHNUT MAKER                | 0      | 9            | 22           | N.A.           |
| 526.686-010    | BAKER HELPER                  | 0      | 55           | 33           | N.A.           |
| 529.387-030    | QUALITY-CONTROL TECHNICIAN    | 0      | 0            | 0            | 6.85           |
| 529.686-014    | CANNERY WORKER                | 0      | 18           | 39           | N.A.           |
| 529.687-074    | EGG CANDLER                   | 0      | 5            | 0            | N.A.           |
| 929.686-010    | BAKERY WORKER                 | 0      | 22           | 3            | N.A.           |

## DEMAND REPORT

| [STATEWIDE]                      |             | MONTANA DEPARTMENT OF LABOR AND INDUSTRY |                |                       |                     |      |
|----------------------------------|-------------|--|----------------|-----------------------|---------------------|------|
| OCCUPATION -<br>TITLE            | OES<br>CODE | 1986<br>EMPLOY                           | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | OPEN |
| ALL OTHER SERVICE SUPERVISORS    | 61099       | 726                                      | 839            | 13                    | 25                  | 38   |
| HOSTS & HOSTESSES: REST., LOUNGE | 65002       | 522                                      | 615            | 10                    | 18                  | 28   |
| BARTENDERS                       | 65005       | 2931                                     | 3358           | 47                    | 104                 | 151  |
| WAITERS & WAITRESSES             | 65008       | 6699                                     | 7743           | 116                   | 97                  | 213  |
| FOOD SERVERS, OUTSIDE            | 65011       | 131                                      | 160            | 3                     | 0                   | 3    |
| DINING ROOM & BARTENDER HELPERS  | 65014       | 1051                                     | 1211           | 18                    | 11                  | 29   |
| COUNTER ATTENDANTS               | 65017       | 841                                      | 952            | 12                    | 2                   | 14   |
| COMB. FOOD PREPARATION, SERVICE  | 65041       | 3702                                     | 4111           | 45                    | 52                  | 97   |
| ALL OTHER FOOD SERVICE WORKERS   | 65099       | 817                                      | 950            | 15                    | 29                  | 44   |
| ALL OTHER SERVICE WORKERS        | 69999       | 658                                      | 749            | 10                    | 57                  | 67   |
| ***TOTALS                        |             | 18078                                    | 20688          | 289                   | 395                 | 684  |

## SUPPLY REPORT

| [STATEWIDE]            |             |                  |             |                |      | SCHOOL YEAR 1988-89 |                 |              |                |
|------------------------|-------------|------------------|-------------|----------------|------|---------------------|-----------------|--------------|----------------|
| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS        | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
| WAITER/WAITRESS & RELA | 08.0905     |                  |             |                |      | 2                   |                 |              | 2              |
| FOOD SERVICE           | 20.0406     |                  |             |                | 28   | 5                   |                 | 11           | 44             |
| ***TOTALS              |             |                  |             |                | 28   | 7                   |                 | 11           | 46             |

## ANALYSIS INFORMATION

| [STATEWIDE]    |  | MONTANA DEPARTMENT OF LABOR AND INDUSTRY |              |              |                |
|----------------|--|--|--------------|--------------|----------------|
| D.O.T.<br>CODE | D.O.T.<br>TITLE                        | APPREN                                   | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
| 211.462-010    | CASHIER 2                              | 0  | 1410         | 713          | N.A.           |
| 222.387-058    | STOCK CLERK                            | 0  | 427          | 236          | 5.99           |
| 311.477-014    | COUNTER ATTENDANT, LUNCHROOM OR COFFEE | 0  | 549          | 725          | 3.47           |
| 311.477-018    | WAITER/WAITRESS, BAR                   | 0  | 0            | 0            | 3.84           |
| 311.477-030    | WAITER/WAITRESS, INFORMAL              | 0  | 1713         | 882          | 3.39           |
| 311.477-038    | WAITER/WAITRESS, TAKE OUT              | 0  | 31           | 24           | N.A.           |
| 311.677-010    | CAFETERIA ATTENDANT                    | 0  | 36           | 17           | N.A.           |
| 311.677-018    | DINING ROOM ATTENDANT                  | 0  | 0            | 0            | 3.49           |
| 312.474-010    | BARTENDER                              | 0  | 1128         | 416          | 5.21           |
| 319.474-010    | FOUNTAIN SERVER                        | 0  | 5            | 0            | 3.29           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE        | OES<br>CODE | EST. ANNUAL 1986-1995 |                | GROWTH | REPLAC | OPEN |
|--------------------------------|-------------|-----------------------|----------------|--------|--------|------|
|                                |             | 1986<br>EMPLOY        | 1995<br>EMPLOY |        |        |      |
| FUNERAL DIRECTORS & MORTICIANS | 39011       | 102                   | 118            | 2      | 5      | 7    |
| EMBALMERS                      | 39014       | 21                    | 24             | 0      | 0      | 0    |
| FUNERAL ATTENDANTS             | 68041       | 34                    | 39             | 1      | 3      | 4    |
| ***TOTALS                      |             | 157                   | 181            | 3      | 8      | 11   |

## NO SUPPLY REPORT

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE   | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-------------------|--------|--------------|--------------|----------------|
|                |                   |        |              |              |                |
| 187.167-030    | DIRECTOR, FUNERAL | 0      | 3            | 0            | 14.73          |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE           | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| CLERGY                            | 27502       | 35             | 39             | 0                     | 3                   | 3            |
| DIRECTORS, RELIGIOUS ACTIV./EDUC. | 27505       | 2              | 2              | 0                     | 0                   | 0            |
| ALL OTHER RELIGIOUS WORKERS       | 27599       | 4              | 3              | 0                     | 0                   | 0            |
| ***TOTALS                         |             | 41             | 44             | 0                     | 3                   | 3            |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| RELIGION             | 38.0201     |                  |             | 4              |      |              |                 |              | 4              |
| BIBLE STUDIES        | 39.0201     |                  |             | 4              |      |              |                 |              | 4              |
| RELIGIOUS EDUCATION  | 39.0401     |                  |             | 2              |      |              |                 |              | 2              |
| THEOLOGICAL STUDIES  | 39.0601     |                  |             | 3              | 1    |              |                 |              | 4              |
| ***TOTALS            |             |                  |             | 13             | 1    |              |                 |              | 14             |

NO ANALYSIS REPORT

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE      | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| SOCIAL SERVICE TECHNICIANS   | 27308       | 209            | 226            | 2                     | 6                   | 8            |
| SOCIAL WORKERS               | 27310       | 1167           | 1302           | 15                    | 43                  | 58           |
| WELFARE ELIGIBILITY WORKERS  | 53502       | 269            | 286            | 2                     | 7                   | 9            |
| SOCIAL WELFARE SERVICE AIDES | 68034       | 191            | 217            | 3                     | 7                   | 10           |
| ***TOTALS                    |             | 1836           | 2031           | 22                    | 63                  | 85           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| INSTITUTIONAL MANAGEM  | 06.0799     |                  |             | 8              |      |              | 2               |              | 10             |
| MENTAL HEALTH/HUMAN S  | 17.0405     |                  |             | 3              | 2    |              |                 | 1            | 6              |
| REHABILITATION COUNSEL | 17.0407     |                  |             | 16             |      |              |                 |              | 16             |
| COMPANION TO THE AGED  | 20.0602     |                  |             |                | 2    |              |                 | 3            | 5              |
| SOCIAL WORK, GENERAL   | 44.0701     |                  |             | 45             | 3    |              |                 | 1            | 49             |
| MEDICAL SOCIAL WORK    | 44.0702     |                  |             |                | 1    |              |                 | 3            | 4              |
| SOCIAL WORK, OTHER     | 44.0799     |                  |             | 9              |      |              |                 |              | 9              |
| ***TOTALS              |             |                  |             | 81             | 8    |              | 2               | 8            | 99             |

## ANALYSIS INFORMATION

[STATEWIDE]

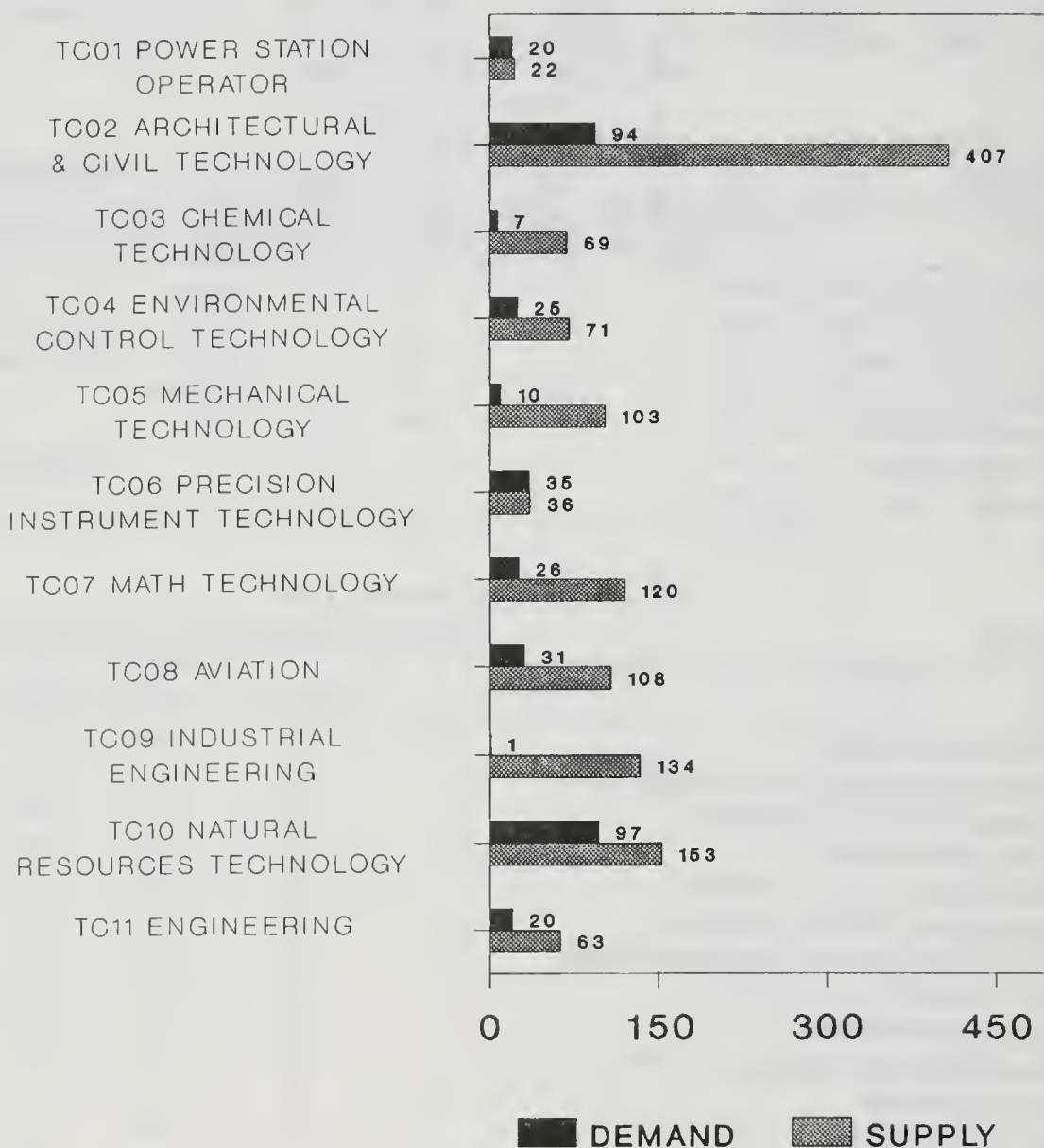
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE               | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-------------------------------|--------|--------------|--------------|----------------|
| 054.067-014    | SOCIOLOGIST                   | 0      | 3            | 0            | N.A.           |
| 187.117-046    | PROGRAM DIRECTOR, GROUP WORK  | 0      | 0            | 0            | 9.37           |
| 187.167-186    | RESIDENCE SUPERVISOR          | 0      | 21           | 16           | 8.89           |
| 195.107-010    | CASEWORKER                    | 0      | 43           | 35           | 7.95           |
| 195.107-022    | SOCIAL GROUP WORKER           | 0      | 30           | 7            | N.A.           |
| 195.107-030    | SOCIAL WORKER, MEDICAL        | 0      | 0            | 0            | 7.12           |
| 195.117-010    | ADMINISTRATOR, SOCIAL WELFARE | 0      | 0            | 0            | 11.67          |
| 195.137-010    | CASEWORK SUPERVISOR           | 0      | 0            | 0            | 7.10           |
| 195.164-010    | GROUP WORKER                  | 0      | 0            | 0            | 5.34           |
| 195.227-010    | PROGRAM AIDE, GROUP WORK      | 0      | 0            | 0            | 4.89           |
| 195.367-010    | CASE AIDE                     | 0      | 0            | 0            | 5.64           |
| 309.354-010    | HOMEMAKER                     | 0      | 0            | 0            | 4.17           |
| 309.677-010    | COMPANION                     | 0      | 102          | 144          | N.A.           |

# TECHNOLOGY CLUSTERS

## DEMAND VS. SUPPLY

ESTIMATED ANNUAL OPENINGS VS. TRAINING COMPLETERS



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| NUCLEAR ENGINEERS                | 22117       | 3              | 4              | 0                     | 0                   | 0            |
| FURNACE OPERATORS & TENDERS      | 91935       | 25             | 19             | -1                    | 0                   | -1           |
| LOW PRESSURE BOILER OPERATOR     | 92926       | 124            | 139            | 2                     | 5                   | 7            |
| POWER GENERATING PLANT OPERATOR  | 95021       | 104            | 114            | 1                     | 1                   | 2            |
| AUXILIARY EQUIP. OPER., POWER    | 95023       | 85             | 89             | 0                     | 1                   | 1            |
| POWER DISTRIBUTORS & DISPATCHERS | 95028       | 69             | 74             | 1                     | 1                   | 2            |
| STATIONARY ENGINEERS             | 95032       | 114            | 118            | 0                     | 4                   | 4            |
| ALL OTHER PLANT & SYSTEM OCC.    | 95099       | 93             | 108            | 2                     | 3                   | 5            |
| ***TOTALS                        |             | 617            | 665            | 5                     | 15                  | 20           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE    | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| ENERGY, POWER, & TRANS  | 21.0105     | 21               |             |                |      |              |                 |              | 21             |
| HEATING & AIR CONDITION | 47.0203     |                  |             |                | 1    |              |                 |              | 1              |
| ***TOTALS               |             | 21               |             |                | 1    |              |                 |              | 22             |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE      | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|----------------------|--------|--------------|--------------|----------------|
| 631.261-014    | POWERHOUSE MECHANIC  | 7      | 0            | 0            | N.A.           |
| 950.382-010    | BOILER OPERATOR      | 5      | 0            | 0            | N.A.           |
| 952.382-018    | POWER-PLANT OPERATOR | 0      | 8            | 0            | N.A.           |



## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE         | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|---------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| CIVIL ENGINEERS, INCL. TRAFFIC  | 22121       | 726            | 828            | 11                    | 20                  | 31           |
| ARCHITECTS, EXC. LAND. & MARINE | 22302       | 193            | 243            | 6                     | 9                   | 15           |
| LANDSCAPE ARCHITECTS            | 22308       | 19             | 22             | 0                     | 1                   | 1            |
| SURVEYING & MAPPING SCIENTISTS  | 22311       | 149            | 177            | 3                     | 4                   | 7            |
| CIVIL ENGINEERING TECHNICIANS   | 22502       | 409            | 456            | 5                     | 8                   | 13           |
| DRAFTERS                        | 22514       | 459            | 531            | 8                     | 3                   | 11           |
| SURVEYING & MAPPING TECHNICIAN  | 22521       | 334            | 389            | 6                     | 10                  | 16           |
| URBAN & REGIONAL PLANNERS       | 27105       | 97             | 100            | 0                     | 0                   | 0            |
| TRAFFIC TECHNICIANS             | 39005       | 5              | 5              | 0                     | 0                   | 0            |
| ***TOTALS                       |             | 2391           | 2751           | 39                    | 55                  | 94           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| ARCHITECTURE           | 04.0201     |                  |             | 38             |      |              |                 |              | 38             |
| CITY, COMMUNITY, & REG | 04.0301     |                  |             | 4              |      |              |                 |              | 4              |
| CIVIL ENGINEERING      | 14.0801     |                  |             | 66             | 1    |              |                 |              | 67             |
| ARCHITECTURAL DESIGN   | 15.0101     |                  |             | 7              |      |              |                 |              | 7              |
| CIVIL TECHNOLOGY       | 15.0201     |                  | 3           |                |      |              |                 |              | 3              |
| DRAFTING & DESIGN TECH | 15.0202     |                  |             | 16             |      |              |                 |              | 16             |
| SURVEYING & MAPPING TE | 15.0203     |                  |             | 9              | 2    |              |                 | 1            | 12             |
| DRAFTING & DESIGN      | 21.0103     | 186              |             |                |      |              |                 |              | 186            |
| GEOGRAPHY              | 45.0701     |                  |             | 9              |      |              |                 |              | 9              |
| DRAFTING, GENERAL      | 48.0101     | 44               | 12          |                | 1    |              |                 |              | 57             |
| ARCHITECTURAL DRAFTIN  | 48.0102     |                  |             |                | 1    |              |                 | 1            | 2              |
| DRAFTING, OTHER        | 48.0199     |                  | 6           |                |      |              |                 |              | 6              |
| ***TOTALS              |             | 230              | 21          | 149            | 5    |              |                 | 2            | 407            |

# ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                 | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------------------|--------|--------------|--------------|----------------|
| 001.061-010    | ARCHITECT                       | 0      | 0            | 0            | 14.71          |
| 001.261-010    | DRAFTER, ARCHITECTURAL          | 0      | 38           | 18           | 9.12           |
| 005.061-014    | CIVIL ENGINEER                  | 0      | 51           | 24           | 15.39          |
| 005.061-034    | STRUCTURAL ENGINEER             | 0      | 0            | 0            | 13.33          |
| 005.281-010    | DRAFTER, CIVIL                  | 0      | 20           | 7            | 9.33           |
| 005.281-014    | DRAFTER, STRUCTURAL             | 0      | 5            | 2            | N.A.           |
| 018.167-010    | CHIEF OF PARTY                  | 0      | 14           | 4            | N.A.           |
| 018.167-018    | LAND SURVEYOR                   | 0      | 0            | 0            | 9.59           |
| 018.167-034    | SURVEYOR ASSISTANT, INSTRUMENTS | 0      | 0            | 0            | 10.05          |
| 182.267-010    | CONSTRUCTION INSPECTOR          | 0      | 8            | 4            | N.A.           |
| 869.567-010    | SURVEYOR HELPER                 | 0      | 0            | 0            | 4.29           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| CHEMICAL ENGINEERS               | 22114       | 52             | 54             | 0                     | 1                   | 1                 |
| CHEMISTS, EXCEPT BIOCHEMISTS     | 24105       | 97             | 104            | 1                     | 1                   | 2                 |
| CHEMICAL TECHNICIANS, EXC.HEALTH | 24505       | 103            | 105            | 0                     | 3                   | 3                 |
| CHEMICAL EQUIP. CONTROLLER/OPER. | 92935       | 79             | 72             | -1                    | 1                   | 0                 |
| CHEMICAL EQUIPMENT TENDER        | 92938       | 20             | 24             | 0                     | 0                   | 0                 |
| CHEMICAL PLANT & SYSTEM OPER.    | 95008       | 50             | 50             | 0                     | 1                   | 1                 |
| ***TOTALS                        |             | 401            | 409            | 0                     | 7                   | 7                 |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| CHEMICAL ENGINEERING | 14.0701     |                  |             | 32             |      |              |                 |              | 32             |
| EPIDEMIOLOGY         | 18.2202     |                  |             |                |      |              |                 | 1            | 1              |
| CHEMISTRY, GENERAL   | 40.0501     |                  |             | 36             |      |              |                 |              | 36             |
| ***TOTALS            |             |                  |             | 68             |      |              |                 | 1            | 69             |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                 | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|---------------------------------|--------|--------------|--------------|----------------|
| 008.261-010    | CHEMICAL-ENGINEERING TECHNICIAN | 0      | 1            | 0            | N.A.           |
| 022.061-010    | CHEMIST                         | 0      | 23           | 1            | 12.40          |
| 022.261-010    | CHEMICAL-LABORATORY TECHNICIAN  | 0      | 9            | 0            | N.A.           |
| 029.261-010    | LABORATORY TESTER               | 0      | 20           | 7            | 10.43          |
| 559.382-046    | PILOT-CONTROL OPERATOR          | 0      | 7            | 6            | N.A.           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| SAFETY ENGINEERS, EXCEPT MINING  | 22132       | 39             | 45             | 1                     | 1                   | 2            |
| METEOROLOGISTS                   | 24108       | 22             | 23             | 0                     | 0                   | 0            |
| WATER & WASTE TREAT. PLANT OPER. | 95002       | 355            | 398            | 5                     | 1                   | 6            |
| REFUSE COLLECTORS                | 98705       | 357            | 402            | 5                     | 12                  | 17           |
| ***TOTALS                        |             | 773            | 868            | 11                    | 14                  | 25           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE           | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|--------------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| RENEWABLE NATURAL RES 03.0101  |             |                  |             | 5              |      |              |                 |              | 5              |
| RENEWABLE NATURAL RES 03.9999  |             |                  |             | 18             |      |              |                 |              | 18             |
| ENVIRONMENTAL HEALTH 14.1401   |             |                  |             | 16             |      |              |                 |              | 16             |
| URBAN PLANNING TECHNO 15.0204  |             |                  |             |                | 1    |              |                 |              | 1              |
| WATER & WASTEWATER TE 15.0506  |             |                  |             | 3              |      |              |                 |              | 3              |
| ENVIRONMENTAL CONTROL 15.0599  |             |                  |             | 10             | 2    |              |                 |              | 12             |
| OCCUPATIONAL SAFETY & 15.0701  |             |                  |             | 9              | 1    |              |                 | 1            | 11             |
| PUBLIC HEALTH PRACTICE 18.2204 |             |                  |             |                |      |              |                 | 1            | 1              |
| FIRE CONTROL & SAFETY 43.0201  |             |                  |             | 1              | 1    |              |                 |              | 2              |
| PUMPING PLANTS 47.0504         |             |                  |             |                | 2    |              |                 |              | 2              |
| ***TOTALS                      |             |                  |             | 62             | 7    |              |                 | 2            | 71             |

## ANALYSIS INFORMATION

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--------------------------------|--------|--------------|--------------|----------------|
| 005.061-030    | SANITARY ENGINEER              | 0      | 0            | 0            | 14.81          |
| 012.167-058    | SAFETY MANAGER                 | 0      | 0            | 0            | 15.13          |
| 551.485-010    | WATER-TREATMENT-PLANT OPERATOR | 0      | 2            | 0            | N.A.           |
| 929.687-022    | LABORER, SALVAGE               | 0      | 20           | 18           | N.A.           |
| 954.362-010    | DITCH RIDER                    | 0      | 0            | 0            | 7.75           |
| 954.382-014    | WATER-TREATMENT-PLANT OPERATOR | 0      | 22           | 5            | N.A.           |
| 954.382-018    | WATERSHED TENDER               | 0      | 0            | 0            | 7.70           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE       | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL 1986-1995 |        |      |
|-------------------------------|-------------|----------------|----------------|-----------------------|--------|------|
|                               |             |                |                | GROWTH                | REPLAC | OPEN |
| MECHANICAL ENGINEERS          | 22135       | 168            | 208            | 4                     | 5      | 9    |
| MECHANICAL ENGINEERING TECHN. | 22511       | 13             | 19             | 1                     | 0      | 1    |
| ***TOTALS                     |             | 181            | 227            | 5                     | 5      | 10   |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE  | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|-----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
|                       |             |                  |             |                |      |              |                 |              |                |
| MECHANICAL ENGINEERIN | 14.1901     |                  |             | 93             |      |              |                 |              | 93             |
| MECHANICAL DESIGN TEC | 15.0805     |                  |             | 6              |      |              |                 | 2            | 8              |
| MECHANICAL DRAFTING   | 48.0105     |                  |             |                | 1    |              |                 | 1            | 2              |
| ***TOTALS             |             |                  |             | 99             | 1    |              |                 | 3            | 103            |

## ANALYSIS INFORMATION

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                   | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-----------------------------------|--------|--------------|--------------|----------------|
|                |                                   |        |              |              |                |
| 007.061-014    | MECHANICAL ENGINEER               | 0      | 21           | 3            | 16.67          |
| 007.161-026    | MECHANICAL-ENGINEERING TECHNICIAN | 0      | 29           | 2            | 10.16          |



## DEMAND REPORT

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE             | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|-------------------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| PRECISION INSPEC., TESTERS, & GRADE | 83002       | 72             | 76             | 0                     | 2                   | 2                 |
| PRECISION INSTRUMENT REPAIRERS      | 85905       | 87             | 94             | 1                     | 13                  | 14                |
| WATCHMAKERS                         | 85917       | 12             | 13             | 0                     | 2                   | 2                 |
| MUSICAL INSTRUMENT REPAIR & TUNE    | 85921       | 31             | 41             | 1                     | 5                   | 6                 |
| LOCKSMITHS & SAFE REPAIRERS         | 85923       | 1              | 1              | 0                     | 0                   | 0                 |
| JEWELERS & SILVERSMITHS             | 89123       | 107            | 125            | 2                     | 5                   | 7                 |
| PRECISION HAND WORKERS, JEWELRY     | 89126       | 3              | 4              | 0                     | 0                   | 0                 |
| PRECISION ETCHERS & ENGRAVERS       | 89128       | 7              | 8              | 0                     | 1                   | 1                 |
| OPTICAL GOODS WORKERS               | 89917       | 18             | 21             | 0                     | 1                   | 1                 |
| ALL OTHER PRECISION WORKERS         | 89999       | 104            | 112            | 1                     | 1                   | 2                 |
| CUTTING & SLICING SETTER/OPER.      | 92941       | 5              | 5              | 0                     | 0                   | 0                 |
| ***TOTALS                           |             | 447            | 500            | 5                     | 30                  | 35                |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| DENTAL LABORATORY TEC  | 17.0103     |                  |             |                | 3    |              |                 |              | 3              |
| LOCKSMITHING & SAFE RE | 47.0403     |                  |             |                | 1    |              |                 | 1            | 2              |
| WATCH REPAIR           | 47.0408     |                  | 5           |                | 2    |              |                 |              | 7              |
| MECHANICS & REPAIRERS  | 47.9999     |                  | 19          |                |      |              |                 |              | 19             |
| JEWELRY DESIGN, FABRIC | 48.0602     |                  |             |                |      |              |                 | 1            | 1              |
| PRECISION PRODUCTION,  | 48.9999     | 2                |             |                | 2    |              |                 |              | 4              |
| ***TOTALS              |             | 2                | 24          |                | 8    |              |                 | 2            | 36             |

## ANALYSIS INFORMATION

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE              | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|------------------------------|--------|--------------|--------------|----------------|
| 700.281-010    | JEWELER                      | 1      | 0            | 0            | 7.31           |
| 712.381-018    | DENTAL-LABORATORY TECHNICIAN | 0      | 13           | 1            | 8.49           |
| 712.664-010    | DENTAL CERAMIST ASSISTANT    | 0      | 2            | 0            | N.A.           |
| 712.681-018    | FINISHER, DENTURE            | 0      | 1            | 0            | N.A.           |
| 715.281-010    | WATCH REPAIRER               | 1      | 1            | 0            | N.A.           |
| 716.382-018    | PRECISION-LENS GRINDER       | 0      | 6            | 1            | N.A.           |
| 716.682-010    | EYEGLASS-LENS CUTTER         | 0      | 1            | 0            | N.A.           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|------|
| ENGINEER., MATH., NAT. SCI. MGR. | 13017       | 186            | 202            | 2                     | 7                   | 9    |
| PHYSICISTS & ASTRONOMERS         | 24102       | 3              | 3              | 0                     | 0                   | 0    |
| ALL OTHER PHYSICAL SCIENTISTS    | 24199       | 105            | 120            | 2                     | 14                  | 16   |
| STATISTICIANS                    | 25312       | 12             | 13             | 0                     | 1                   | 1    |
| ALL OTHER MATHEMATICAL SCIENTIST | 25319       | 25             | 28             | 0                     | 0                   | 0    |
| MATHEMATICAL TECHNICIANS         | 25323       | 1              | 1              | 0                     | 0                   | 0    |
| ***TOTALS                        |             | 332            | 367            | 4                     | 22                  | 26   |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|----------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| MATHEMATICS, GENERAL | 27.0101     |                  |             | 84             |      |              |                 |              | 84             |
| PURE MATHEMATICS     | 27.0401     |                  |             | 2              |      |              |                 |              | 2              |
| STATISTICS           | 27.0501     |                  |             | 5              |      |              |                 |              | 5              |
| PHYSICS, GENERAL     | 40.0801     |                  |             | 29             |      |              |                 |              | 29             |
| ***TOTALS            |             |                  |             | 120            |      |              |                 |              | 120            |

NO ANALYSIS REPORT

## DEMAND REPORT

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE           | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1995<br>OPEN |
|-----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|--------------|
| AIR TRAFFIC CONTROLLERS           | 39002       | 138            | 149            | 1                     | 3                   | 4            |
| AIRCRAFT MECHANICS                | 85323       | 166            | 218            | 6                     | 7                   | 13           |
| AIRCRAFT ENGINE SPECIALISTS       | 85326       | 28             | 32             | 0                     | 0                   | 0            |
| AIRCRAFT PILOTS, FLIGHT ENGINEERS | 97702       | 176            | 266            | 10                    | 4                   | 14           |
| ***TOTALS                         |             | 508            | 665            | 17                    | 14                  | 31           |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE     | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|--------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| AIRCRAFT MECHANICS, AIR  | 47.0607     |                  | 42          |                | 4    |              |                 |              | 46             |
| AIRCRAFT MECHANICS, PO   | 47.0608     |                  | 20          |                | 1    |              |                 | 2            | 23             |
| AIRPLANE PILOTING & NAV  | 49.0102     |                  |             |                |      |              | 9               |              | 9              |
| AIRPLANE PILOTING (PRIVA | 49.0107     |                  |             |                |      |              | 30              |              | 30             |
| ***TOTALS                |             |                  | 62          |                | 5    |              | 39              | 2            | 108            |

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                        | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--|--------|--------------|--------------|----------------|
| 193.162-018    | AIR-TRAFFIC-CONTROL SPECIALIST, TOWER  | 0      | 5            | 0            | N.A.           |
| 196.263-014    | AIRPLANE PILOT, COMMERCIAL             | 0      | 0            | 0            | 12.41          |
| 352.367-010    | AIRPLANE-FLIGHT ATTENDANT              | 0      | 4            | 0            | N.A.           |
| 621.261-018    | FLIGHT ENGINEER                        | 0      | 1            | 0            | N.A.           |
| 621.281-014    | AIRFRAME-AND-POWER-PLANT MECHANIC      | 0      | 75           | 5            | N.A.           |
| 621.381-014    | MECHANIC, AIRCRAFT ACCESSORIES         | 0      | 7            | 0            | N.A.           |
| 806.381-010    | AIRCRAFT MECHANIC, ARMAMENT            | 0      | 3            | 0            | N.A.           |
| 806.381-018    | AIRCRAFT MECHANIC, RIGGING AND CONTROL | 0      | 1            | 0            | N.A.           |
| 806.381-022    | ASSEMBLER, AIRCRAFT POWER PLANT        | 0      | 1            | 0            | N.A.           |
| 823.281-010    | AVIONICS TECHNICIAN                    | 2      | 0            | 0            | N.A.           |
| 862.381-010    | AIRCRAFT MECHANIC, PLUMBING AND HYDRAU | 0      | 8            | 1            | N.A.           |
| 912.367-014    | TRANSPORTATION AGENT                   | 0      | 4            | 0            | N.A.           |

## DEMAND REPORT

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| OCCUPATION -<br>TITLE             | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|-----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| INDUSTRIAL ENGINEERS, EXC. SAFETY | 22128       | 28             | 34             | 1                     | 0                   | 1                 |
| INDUSTRIAL ENGINEERING TECHN.     | 22508       | 3              | 3              | 0                     | 0                   | 0                 |
| ***TOTALS                         |             | 31             | 37             | 1                     | 0                   | 1                 |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| PROGRAM -<br>TITLE     | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| INDUSTRIAL ENGINEERING | 14.1701     |                  |             | 23             |      |              |                 |              | 23             |
| INDUSTRIAL PRODUCTION  | 15.0699     |                  |             | 7              |      |              |                 |              | 7              |
| INDUSTRIAL ARTS, GENER | 21.0101     | 31               |             |                |      |              |                 |              | 31             |
| INDUSTRIAL ARTS, OTHER | 21.0199     | 73               |             |                |      |              |                 |              | 73             |
| ***TOTALS              |             | 104              |             | 30             |      |              |                 |              | 134            |

## ANALYSIS INFORMATION

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                   | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|-----------------------------------|--------|--------------|--------------|----------------|
| 012.167-030    | INDUSTRIAL ENGINEER               | 0      | 0            | 0            | 13.11          |
| 012.267-010    | INDUSTRIAL ENGINEERING TECHNICIAN | 0      | 1            | 0            | N.A.           |
| 142.061-026    | INDUSTRIAL DESIGNER               | 0      | 0            | 0            | 11.89          |
| 199.361-010    | RADIOGRAPHER                      | 0      | 18           | 3            | N.A.           |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE           | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|-----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| METALLURGISTS & REL. ENGINEERS    | 22105       | 23             | 24             | 0                     | 0                   | 0                 |
| MINING ENGINEERS, INC. SAFETY     | 22108       | 111            | 137            | 3                     | 1                   | 4                 |
| PETROLEUM ENGINEERS               | 22111       | 29             | 33             | 0                     | 0                   | 0                 |
| GEOLOGIST, GEOPHYSICIST, OCEANOGR | 24111       | 341            | 409            | 8                     | 6                   | 14                |
| PETROLEUM TECHNICIANS & TECHNOL.  | 24511       | 16             | 18             | 0                     | 0                   | 0                 |
| ALL OTHER SCIENCE TECHNICIANS     | 24599       | 254            | 303            | 5                     | 3                   | 8                 |
| MACHINERY MECH.:UNDERGROUND MINE  | 85117       | 2              | 2              | 0                     | 0                   | 0                 |
| EARTH DRILLERS, EX. OIL & GAS     | 87902       | 183            | 206            | 3                     | 7                   | 10                |
| BLASTERS & EXPLOSIVES WORKERS     | 87905       | 111            | 122            | 1                     | 4                   | 5                 |
| ROTARY DRILL OPERATORS            | 87911       | 130            | 133            | 0                     | 1                   | 1                 |
| DERRICK OPERATORS, OIL & GAS      | 87914       | 68             | 69             | 0                     | 0                   | 0                 |
| SERVICE UNIT OPERATORS            | 87917       | 232            | 236            | 0                     | 5                   | 5                 |
| ROUSTABOUTS                       | 87921       | 445            | 429            | -2                    | 10                  | 8                 |
| ROOF BOLTERS                      | 87923       | 33             | 34             | 0                     | 1                   | 1                 |
| MINE CUTTING MACHINE OPERATORS    | 87943       | 139            | 144            | 1                     | 1                   | 2                 |
| ALL OTHER MINING MACH. OPERATORS  | 87949       | 24             | 27             | 0                     | 0                   | 0                 |
| ALL OTHER EXTRACTIVE OCC.,EX.HEL  | 87989       | 46             | 47             | 0                     | 2                   | 2                 |
| ALL OTHER CONSTR. & EXTRACTIVE    | 87999       | 93             | 112            | 2                     | 2                   | 4                 |
| GAS PLANT OPERATORS               | 95005       | 84             | 93             | 1                     | 3                   | 4                 |
| PETROLEUM PUMP SYSTEM OPERATORS   | 95011       | 10             | 8              | 0                     | 0                   | 0                 |
| PETROLEUM REFINERY OPERATORS      | 95014       | 65             | 51             | -2                    | 2                   | 0                 |
| GAUGERS                           | 95017       | 8              | 7              | 0                     | 0                   | 0                 |
| OIL PUMPERS, EXCEPT WELL HEAD     | 97908       | 52             | 52             | 0                     | 1                   | 1                 |
| WELL HEAD PUMPERS                 | 97911       | 118            | 119            | 0                     | 3                   | 3                 |
| MAIN LINE STATION ENGINEERS       | 97914       | 13             | 12             | 0                     | 0                   | 0                 |
| GAS PUMPING STATION OPERATORS     | 97917       | 9              | 10             | 0                     | 0                   | 0                 |
| GAS COMPRESSOR OPERATORS          | 97921       | 26             | 29             | 0                     | 1                   | 1                 |
| EXCAVATION LOADING MACHINE OPER.  | 97923       | 274            | 326            | 6                     | 13                  | 19                |
| DRAGLINE OPERATORS                | 97926       | 39             | 50             | 1                     | 2                   | 3                 |
| UNDERGROUND LOADING MACH. OPER.   | 97932       | 13             | 13             | 0                     | 1                   | 1                 |
| PUMP OPERATORS                    | 97953       | 78             | 70             | -1                    | 2                   | 1                 |
| HELPERS, EXTRACTIVE WORKERS       | 98323       | 25             | 29             | 0                     | 0                   | 0                 |
| ***TOTALS                         |             | 3094           | 3354           | 26                    | 71                  | 97                |



# SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE     | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|--------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| GEOLOGICAL ENGINEERIN    | 14.1501     |                  |             | 10             |      |              |                 |              | 10             |
| GEOPHYSICAL ENGINEERI    | 14.1601     |                  |             | 11             |      |              |                 |              | 11             |
| METALLURGICAL ENGINEE    | 14.2001     |                  |             | 5              |      |              |                 |              | 5              |
| MINING & MINERAL ENGINE  | 14.2101     |                  |             | 18             | 2    |              |                 |              | 20             |
| PETROLEUM ENGINEERING    | 14.2501     |                  |             | 46             |      |              |                 |              | 46             |
| PETROLEUM TECHNOLOGY     | 15.0903     |                  |             |                | 1    |              |                 | 3            | 4              |
| GEOLOGY                  | 40.0601     |                  |             | 31             |      |              |                 |              | 31             |
| GEOCHEMISTRY             | 40.0602     |                  |             | 4              |      |              |                 |              | 4              |
| EARTH SCIENCE            | 40.0703     |                  |             | 11             |      |              |                 |              | 11             |
| OIL & GAS DRILLING EQUIP | 47.0305     |                  |             |                | 1    |              |                 |              | 1              |
| MINING EQUIPMENT OPER    | 49.0204     |                  |             |                | 9    |              |                 | 1            | 10             |
| ***TOTALS                |             |                  |             | 136            | 13   |              |                 | 4            | 153            |

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MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| D.O.T.<br>CODE | D.O.T.<br>TITLE                        | APPREN | J.S.<br>APPS | J.S.<br>OPEN | AVG.<br>HRWAGE |
|----------------|--|--------|--------------|--------------|----------------|
| 010.281-014    | DRAFTER, GEOLOGICAL                    | 0      | 0            | 0            | 9.41           |
| 011.061-010    | FOUNDRY METALLURGIST                   | 0      | 0            | 0            | 16.34          |
| 011.261-010    | METALLURGICAL TECHNICIAN               | 0      | 4            | 0            | N.A.           |
| 024.061-018    | GEOLOGIST                              | 0      | 0            | 0            | 15.34          |
| 024.061-022    | GEOLOGIST, PETROLEUM                   | 0      | 0            | 0            | 29.00          |
| 181.167-014    | SUPERINTENDENT, DRILLING AND PRODUCTIO | 0      | 0            | 0            | 17.59          |
| 549.260-010    | REFINERY OPERATOR                      | 0      | 24           | 18           | N.A.           |
| 629.381-014    | OIL-FIELD EQUIPMENT MECHANIC           | 0      | 0            | 0            | 8.81           |
| 850.683-010    | BULLDOZER OPERATOR 1                   | 0      | 41           | 8            | 15.44          |
| 850.683-030    | POWER-SHOVEL OPERATOR                  | 0      | 0            | 0            | 14.39          |
| 859.683-010    | OPERATING ENGINEER                     | 5      | 1321         | 58           | 14.52          |
| 869.684-046    | ROUSTABOUT                             | 0      | 0            | 0            | 7.88           |
| 914.382-014    | PUMPER-GAGER                           | 2      | 0            | 0            | N.A.           |
| 914.384-010    | GAGER                                  | 0      | 0            | 0            | 13.08          |
| 930.130-010    | TOOL PUSHER                            | 0      | 0            | 0            | 10.74          |
| 930.382-018    | PROSPECTING DRILLER                    | 0      | 0            | 0            | 10.56          |
| 930.382-026    | ROTARY DRILLER                         | 0      | 0            | 0            | 14.33          |
| 930.683-018    | DERRICK WORKER, WELL SERVICE           | 0      | 0            | 0            | 8.96           |
| 930.684-014    | FLOOR WORKER, WELL SERVICE             | 0      | 0            | 0            | 8.65           |
| 930.684-026    | ROTARY-DRILLER HELPER                  | 0      | 187          | 44           | N.A.           |
| 931.261-010    | BLASTER                                | 0      | 0            | 0            | 16.34          |

## DEMAND REPORT

[STATEWIDE]

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

| - OCCUPATION -<br>TITLE          | OES<br>CODE | 1986<br>EMPLOY | 1995<br>EMPLOY | EST. ANNUAL<br>GROWTH | 1986-1995<br>REPLAC | 1986-1995<br>OPEN |
|----------------------------------|-------------|----------------|----------------|-----------------------|---------------------|-------------------|
| ALL OTHER ENGINEERS              | 22199       | 96             | 116            | 2                     | 3                   | 5                 |
| ALL OTHER ENGINEERING TECHNICIAN | 22599       | 441            | 495            | 6                     | 9                   | 15                |
| ***TOTALS                        |             | 537            | 611            | 8                     | 12                  | 20                |

## SUPPLY REPORT

[STATEWIDE]

SCHOOL YEAR 1988-89

| - PROGRAM -<br>TITLE   | CIP<br>CODE | PUBLIC<br>SECOND | VOC<br>TECH | HIGHER<br>EDUC | JTPA | JOB<br>CORPS | PRIV.<br>SCHOOL | VOC<br>REHAB | TOTAL<br>***** |
|------------------------|-------------|------------------|-------------|----------------|------|--------------|-----------------|--------------|----------------|
| ENGINEERING, GENERAL   | 14.0101     |                  |             | 36             | 1    |              |                 | 2            | 39             |
| ENGINEERING MECHANICS  | 14.1101     |                  |             | 2              |      |              |                 |              | 2              |
| ENGINEERING, OTHER     | 14.9999     |                  |             | 4              |      |              |                 |              | 4              |
| ENGINEERING & ENG.-REL | 15.9999     |                  |             | 18             |      |              |                 |              | 18             |
| ***TOTALS              |             |                  |             | 60             | 1    |              |                 | 2            | 59             |

NO ANALYSIS REPORT



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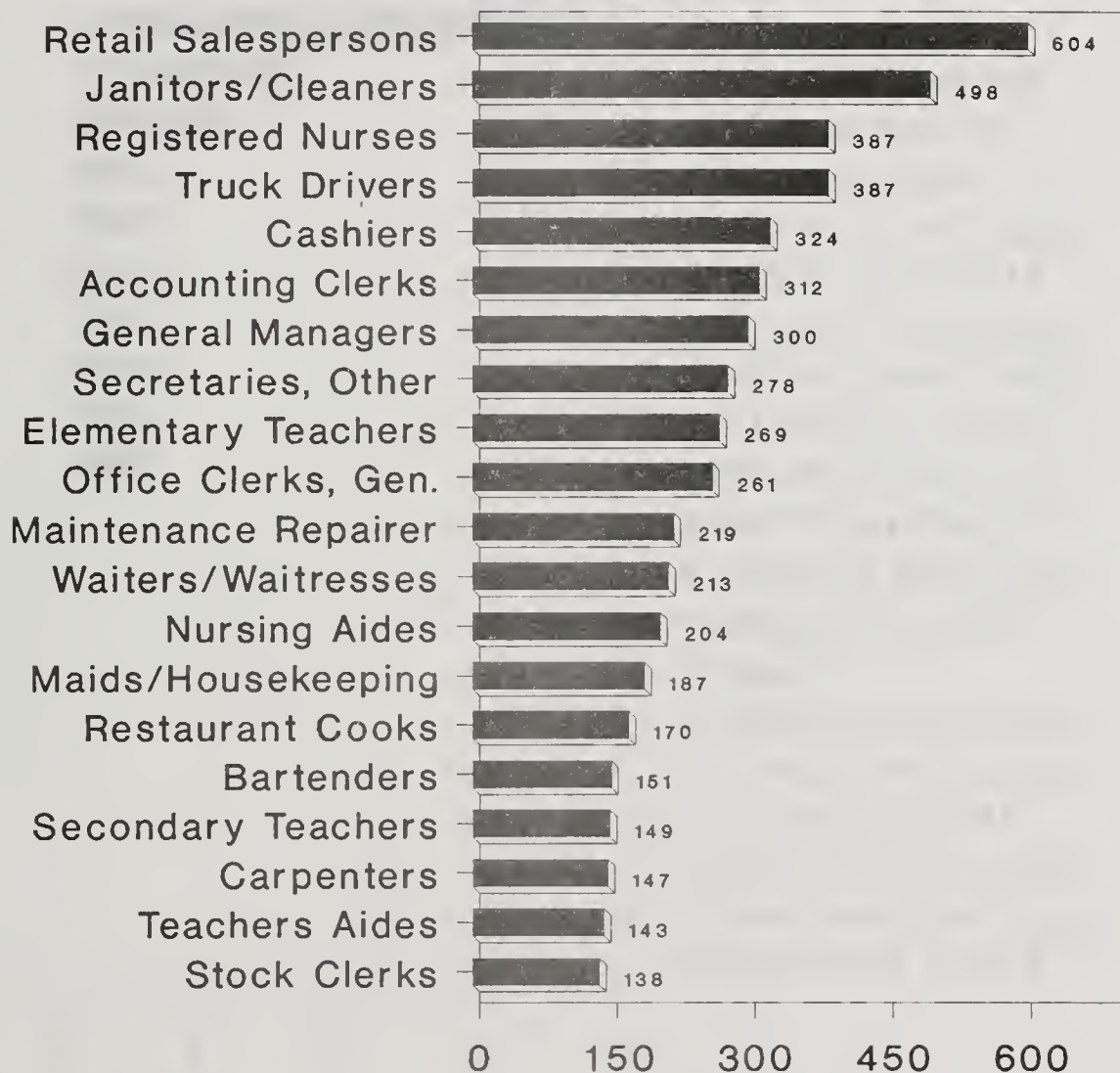
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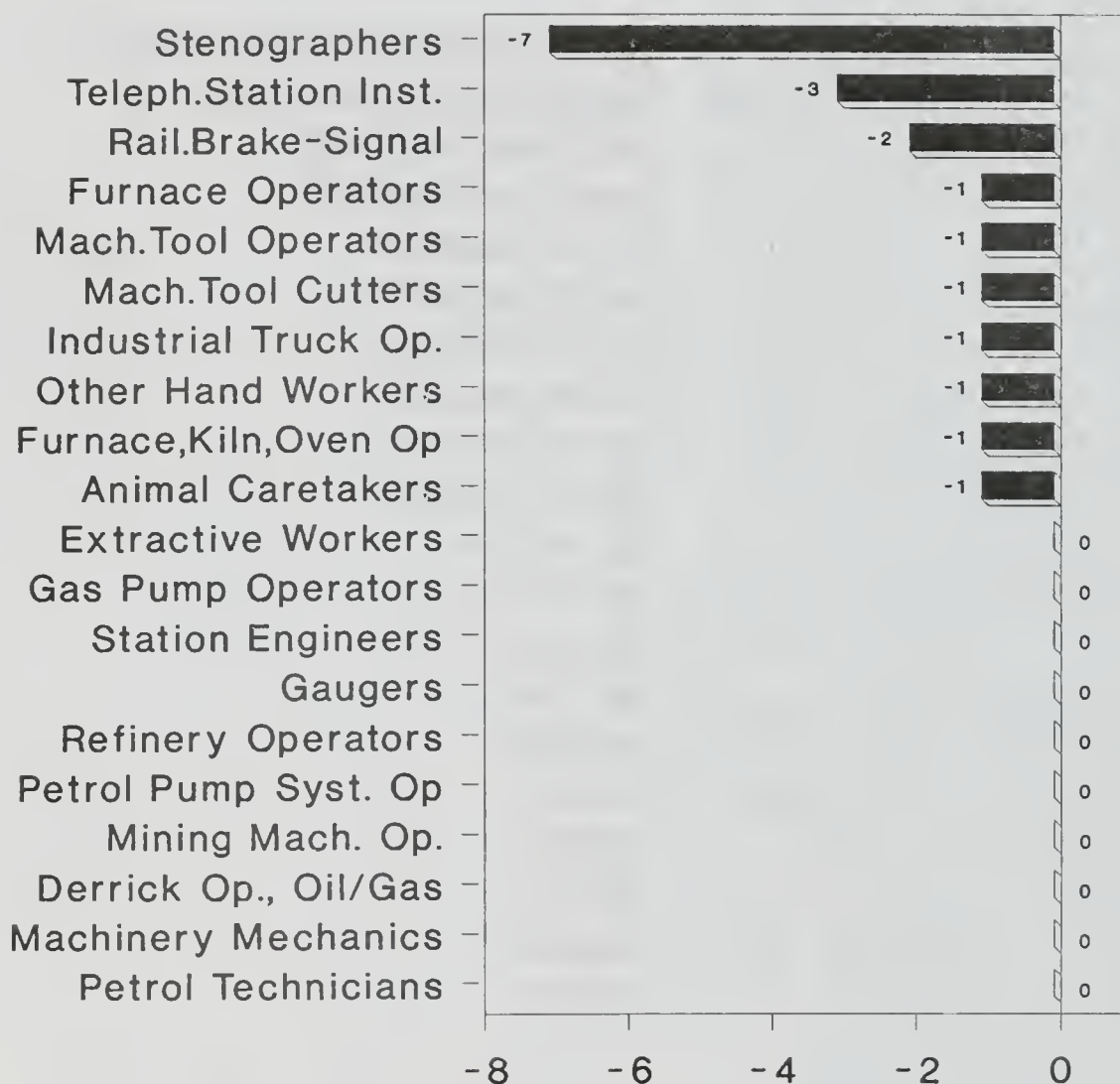
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## DECLINING OCCUPATIONS

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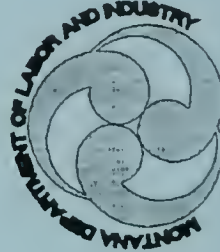


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